SERVICE MANUAL

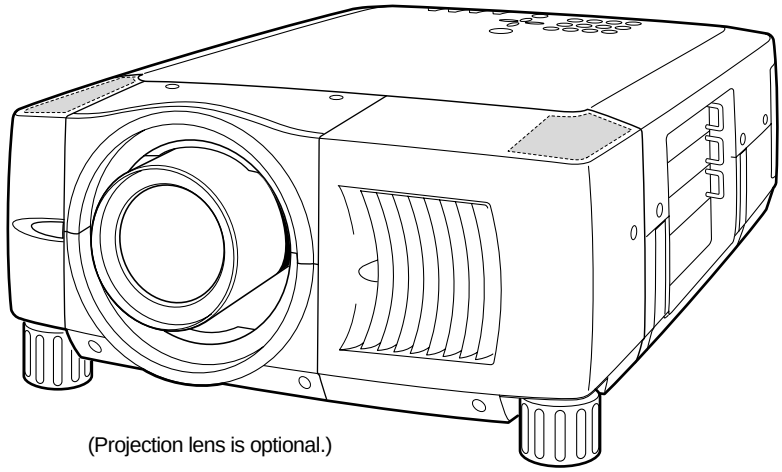
Multimedia Projector

SANYO

FILE NO.

MODEL NO.
PLV-WF10

U.S.A., Canada,
Europe, Asia, Africa, M.E., U.K.



(Projection lens is optional.)

Original version

Chassis No. M4R-WF1000

NOTE: Match the Chassis No. on the rating sheet on the cabinet with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Give complete " **Chassis NO.** " for parts order or servicing, it is shown on the rating sheet on the cabinet of the Projector.

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PRODUCT CODE :

PLV-WF10	M4RA	1 122 230 00	U.S.A. , Canada
PLV-WF10	P4RA	1 122 233 00	Continental Europe, Asia, Africa, M.E.
PLV-WF10	P4RC	1 122 233 02	U.K.

REFERENCE NO. SM5110607

Technical Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	17.3" x 9.1" x 23.8" (439 mm x 230 mm x 605.6 mm)
Net Weight	46.3 lbs (21 kg)
LCD Panel System	1.21" TFT Active Matrix type, 3 panels
Panel Resolution	1366 x 768 dots
Number of Pixels	3,147,264 (1366 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, 1080i-50 and 1080i-60
Motorized Lens Shift	Up and Down
Scanning Frequency	H-sync. 15 ~ 120 KHz, V-sync. 50 ~ 120 Hz
Horizontal Resolution	800 TV lines
Projection Lamp	250 watt type x 2
Input 1 Jacks	DVI-I Terminal (Digital/Analog), RCA Type (Audio R and L) and DIN 8-pin (Control port)
Input 2 Jacks	BNC Type x 5 (R/Pr, G/Y, B/Pb, H/HV and V), RCA Type (Audio R and L) and DIN 8-pin (Control port)
Input 3 Jacks	BNC Type x 2 (VIDEO/Y, C), RCA Type (Audio R and L) and DIN 4-pin (S-Video)
Other Jacks	Serial port in (DB 9), Serial port out (DB 9), USB port, Audio Monitor out (RCA Type R and L) and Wired Remote Jack
Built-in Speakers	INT. SP. Stereo (R and L), 3 watt RMS (T.H.D. 10%)
Feet Adjustment	0˚ to 6.9˚
Voltage and Power Consumption	AC 100 ~ 120 V (8.0 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (4.0 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)
Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10 ˚C ~ 60 ˚C)
Remote Control Transmitter	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30˚ Dimensions : 2.0" x 1.4" x 7.6" (50mm x 36mm x 193mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual AC Power Cord Wireless/Wired Remote Control Transmitter and Batteries Remote Control Cable DVI-VGA Cable and DVI Cable MAC/VGA Adapter 3 Types Control Cable (For PS/2, Serial and ADB port) 3 Types Light-Block Sheet (For option lens) 2 Types Lens Attachment (For option lens) Protective Dust Cover

- Specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. At least 99.99% of the pixels are effective, however a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Safety Instructions

For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

Risk of electric shock

Assembly power, Assembly PFC, Assembly lamp ballast and Assembly lamp are "HOT" .

The signal circuit and control circuit of this projector are insulated (COLD) from AC line by the insulation transformer inside the projector. But, assembly power, assembly PFC, assembly lamp ballast and assembly lamp are **not insulated** from AC line, and those are "**HOT**."

HOT CIRCUIT IS IDENTIFIED WITH THE LINE (⎓) IN THE SCHEMATIC DIAGRAM. An insulation transformer should be connected in the power line between the projector and the AC line before the service of hot circuit is performed on the projector.

Laser Beam (Laser Pointer)

As the laser beam used in this Laser Pointer is harmful to the eyes, do not attempt to disassemble the Remote Control unit.

NOTE; Laser radiation
Max output ; **1mW**
Wave length ; **650 ± 20nm**
Class II laser product

Cooling Fan

Observance : Attachment direction

The attachment direction of the cooling fan is the important matter for maintaining the safety of a product. If the attachment direction is mistaken, it will become the cause which the inside of the projector is unusually overheated and a fire or parts damage.

Safety significant parts

Observance : Designated part

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark (⚠) in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of the parts must be made by exactly the same parts.

Light source lamp

Caution : UV and Strong light

Don't view directly the light emitted from the lamp of this projector. The emitted light is very strong and the ultraviolet ray is also included. Protect the eyes and the skin from the ultraviolet ray and strong light in the case of the disassembly repair.

Caution : High voltage

When the lamp is turned on, the high voltage (20Kv~25Kv) is impressed to electrode of the lamp. Be careful not to receive an electric shock during disassembling the projector for the repair.

Caution : Hot circuit

The lamp of this projector is not insulated from AC line and it is hot. Be careful not to receive an electric shock during disassembling the projector for the repair. (Refer to the protections on page-4.)

Caution : High temperature

The lamp is very high temperature during the lamp lighting. The hot state continues for the time being after turning off the lamp. Be careful not to receive the scald during disassembling the projector for the repair. When you replace the lamp, turn off and leave the projector for a while. (Cooling of natural convection)

Caution : BURST

The useful life of the lamp passes when the LAMP REPLACE indicator lights yellow. Replace the lamp promptly if the useful life of the lamp has passed. Failure to observe this caution may cause bursting of the lamp.

Caution : Mercury gas

Mercury is contained inside the light bulb of the lamp. If the lamp should burst, open a window and a door and ventilate the room.

Caution : Don't disassemble.

The lamp assembly is safety significant part, don't attempt to disassemble the lamp assembly.

***** Reliability may be spoiled. (Dielectric strength / Thermal stability)

***** Light bulb may be damaged.

Other

Observance : Obstacle

Don't put an obstacle near the air intake or exhaust vent of the projector in the case of repair. Air blown from an exhaust vent is hot. If a spray can and metal tools are placed near an exhaust vent, those are overheated and dangerous. And, if the air intake or exhaust vent are blocked, the inside of the projector is overheated and dangerous.

Observance : Cation label

Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

Observance : After disassembly repair

When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers or shields, barriers, etc. Do not operate this projector without the protective shield in position and properly secured. Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Protections

This projector is equipped with the following protections to operate in safety.

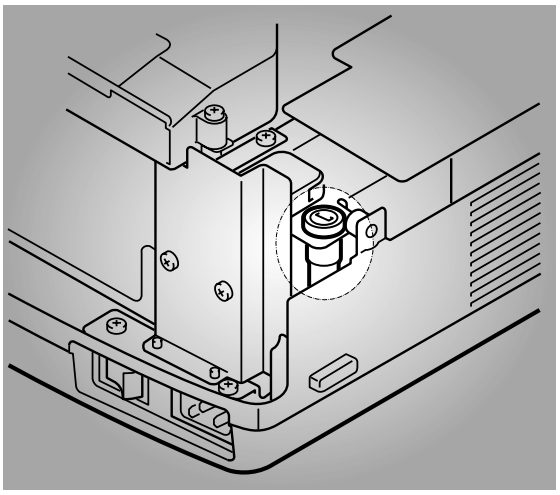
Fuse for circuit protection

CAUTION

The fuse is safety significant part. For continued safety, it should be used the specified fuse as follows;

Fuse Part No. : 423 027 2602
TYPE T10AH250V FUSE
LITTLEFUSE INC. TYPE 215010

MY6A



The fuse is located at the rear of a projector. (Refer to figure.)
When either the LAMP indicator or the READY indicator is not illuminated, the fuse may be opened. Check the fuse as following steps.

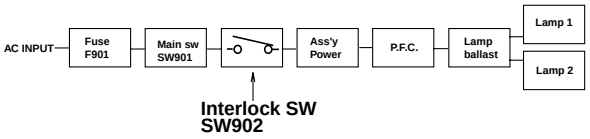
1. Remove the Cabinet top.
   Refer to "Mechanical Disassemblies" on pages 9~10.
2. Remove the fuse from fuse holder.
   (To install the fuse, take reversed step in the above.)
3. Check the fuse using a tester.

This caution label is located near the Fuse.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE. REPLACE ONLY WITH TYPE T10AH250V FUSE. (LITTLEFUSE INC TYPE 215010)
ATTENTION: POUR MAINTENIR LA PROTECTION CONTRE LES RISQUES D'INCENDIE. N'UTILISER QUE DES FUSIBLES DE RECHANGE CALIBRES A T10AH250V. (LITTLEFUSE INC TYPE 215010)
1AA6P4S2203--

Protection equipment for users

Electric shock protection. (Interlock switch)

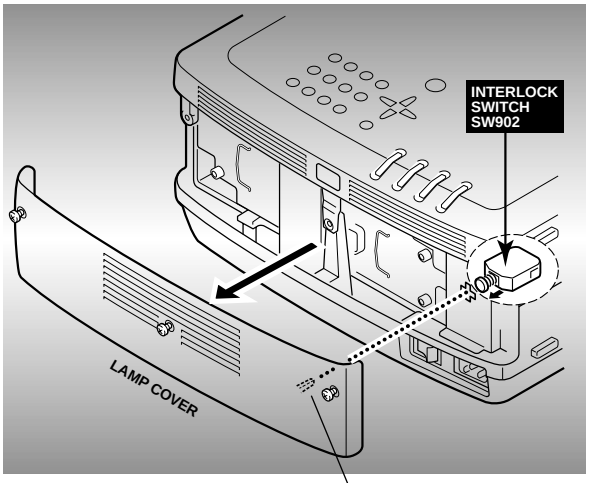


■ Protection equipment for lamp replacement :

The Lamp circuit (the lamp and the electrode of the lamp socket) of this projector is not insulated from AC line, and it is "HOT". Therefore, an electric shock may be received when you replace the lamp assembly. However, this projector is designed to protect you from the accident. This switch(SW902) insulates a lamp circuit from AC line when lamp cover is removed. (The lamp circuit is changed to "COLD" by this switch.)

■ The note for the service personnel about the repair of the projector :

Remember that the interlock switch is opened during disassembling the cabinet. The projector can't be turned on. *(Some of the service personnel forget it often.)* When you want to turn on the projector without cabinet, press and hold the lever of the interlock switch.



Boss inside the lamp cover

Overheat Protection

-- The temperature monitor system --

The temperature monitor system protects optical components (LCD panel, Polarization film, etc.) from the unusual overheat inside a projector. This system is composed of two protection equipment. Each system operation as follows ;

The temperature monitor -1;

■ **The CPU controls Air flow.**

The CPU checks the temperature by using the temperature sensor-IC5801 and the atmospheric pressure by using pressure sensor-IC886, inside a projector. The CPU judges data from sensors and controls the air flow of the cooling fans so that the temperature inside the projector may be maintained to normal temperature.

■ **The CPU shuts down the projector compulsorily.**

The CPU checks the temperatures by using the temperature sensors IC2561 (near the Red LCD panel) and IC5801(inhalation air). If each part temperature reaches to abnormal temperature(IC2561 ; 47degrees / IC5801 ; 42degrees), the CPU will shut down the projector, and will blink TEMPERATURE WARNING indicator at intervals of 0.6 seconds. The cooling fans operate until the temperature returns to normal. When the temperature returns to normal, the indicator stops blinking. Then trace the cause of an unusual temperature. And repair the projector. (Refer to the item of "temperature abnormality" of troubleshooting.) 4R

The temperature monitor -2 ;

■ **The temperature switches shut down the projector compulsorily.**

Temperature switches (SW903/904) are arranged near the two lamps. If a temperature of lamp reaches an unusual temperature, the temperature switch will operate.

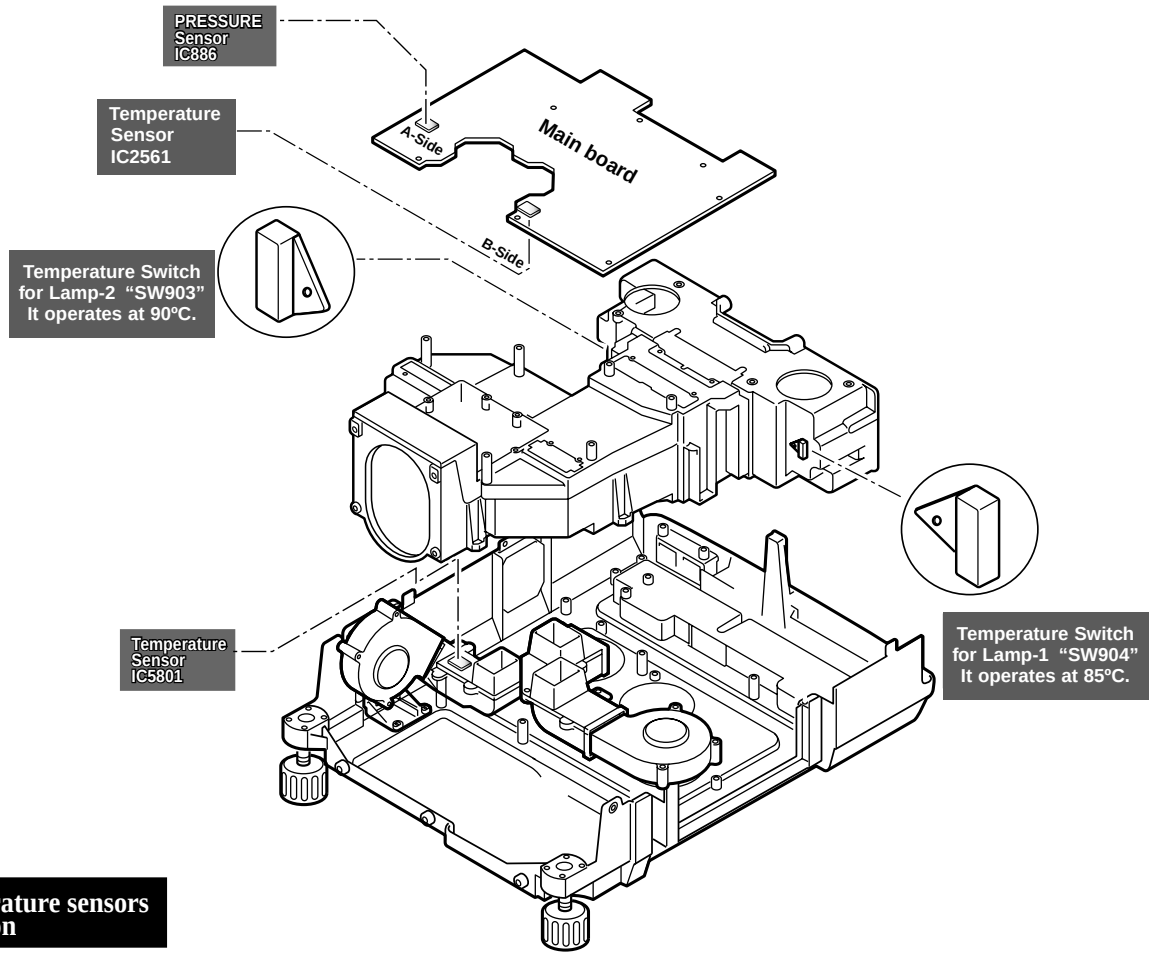
SW904 (Lamp-1)----- It operates at 85 degrees.
SW903 (Lamp-2)----- It operates at 90 degrees. 4R

The lamp ballast units shut down, then the projector is turned off when the temperature switches operate.

■ **Note :**

(1) If other protection equipment (The function of signal check of "Power failure", The temperature monitor-1, etc.) are rightly operating, the lamp does not become an unusual temperature. So, the temperature monitor-2 rarely operates. However, when those protection equipment do not operate with fault, this temperature monitor-2 operates and covers the broken protection equipment. If this temperature monitor-2 operates, it is thought fault of other protection equipment. Trace the fault of other protection equipment and the causes of an unusual temperature. (Refer to the item of "temperature abnormality" of troubleshooting.)

(2) The CPU does not check the operation of temperature switches (SW903/904). Therefore, the TEMPERATURE WARNING indicator does not blink when the temperature switch (SW903 or 904) operates and the projector is shut down.

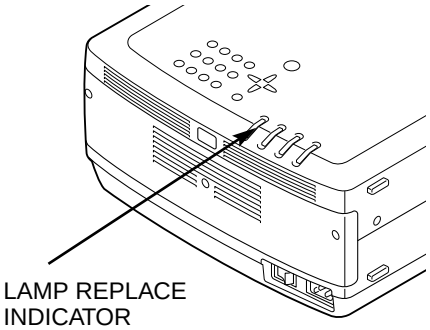


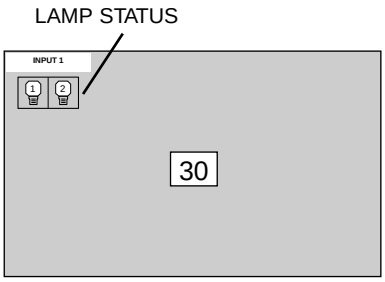
Temperature sensors location

Lamp Replacement

Before Replacement

This Projector is equipped with 2 Projection Lamps to ensure brighter image and those lamps are controlled by Lamp Management Function. Lamp Management Function detects status of two lamps and shows status on screen or on LAMP REPLACE indicator. This function also automatically controls Lamp Mode when any of lamps are out for end of life or malfunctions.



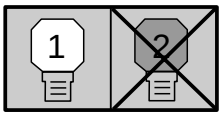


Lamp Replace Indicator

This LAMP REPLACE indicator lights yellow when any of Projection Lamps are nearing its end, and flashes when any of them becomes out. Check number of lamp on Lamp Status Display and replace lamp.

Lamp Status Display

Lamp Status Display appears on screen when power switch is on or changed input position (input 1, input 2 or input 3). This shows status of each lamp as; ON, OFF, NEAR END, or OUT. Refer to following for each status.



LAMP STATUS
DISPLAY

Yellow Lamp ---------- Projection Lamp lights normally.

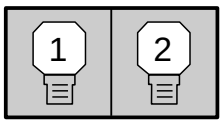
Dim Lamp ---------- Projection Lamp is turned off.

Red Lamp ---------- Projection Lamp is nearing its end. When image becomes darker or color becomes unnatural, replace lamp.
(LAMP REPLACE indicator lights yellow.)

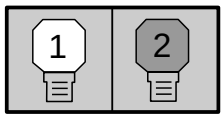
X Mark on Lamp ------- (LAMP REPLACE indicator flashes yellow.)
Projection lamp is defective or fails to be turned on. Restart a projector on, and make sure lamp is on. If this mark still appears, replace lamp corresponding with number marked X.

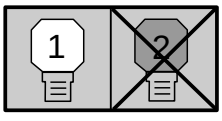
Lamp Mode Changeover

Lamp Management Function automatically changes combination of lighting lamp (Lamp Mode) by detecting status of lamp. When any of 2 lamps becomes out, Lamp Mode is changed over from 2 lamps to 1 lamp. Lamp Mode can be switched to 2 lamps or 1 lamp manually. Refer to SETTING section on page 39, 40 of Owner's manual.



2 LAMP MODE





1 LAMP MODE
(Example)

Safety instructions about the lamp replacement.

Refer to "Light source lamp" of Safety instructions on page-3.

CAUTION : Designated part

Lamp assembly is safety significant part. For continued safety, replace for the following lamp assembly.

Lamp Type No. : POA-LMP73

Service Part No. : 610 309 3802

4RA

Caution : BURST

The useful life of the lamp passes when LAMP REPLACE indicator lights yellow. Replace the lamp promptly if the useful life of the lamp has passed. Failure to observe this caution may cause bursting of the lamp.

Caution : BURST

Do not reset LAMP REPLACEMENT COUNTER except after projection lamp is replaced. Failure to observe this caution, when the useful life of the lamp passes, the LAMP REPLACE indicator do not light. It will have been using the lamp over which the useful life passed. It may cause the burst of the lamp.

CAUTION : MALFUNCTION OR FIRE HAZARD

Don't operate a projector while any of lamps are removed. It may result in malfunctions, fire hazard, or other accidents.

Caution : BURST

Don't mistake number of the lamp to be replaced in the case of lamp replacement. If number of the lamp is mistaken, the CPU can't manage each illumination time of the lamp. It will have been using the lamp over which the useful life passed. It may cause the burst of the lamp.

Caution : HIGH TEMPERATURE

The lamp is very high temperature during the lamp lighting. The hot state continues for the time being after turning off the lamp. Be careful not to receive the scald during disassembling the projector for the repair. When you replace the lamp, turn off and leave the projector for a while. (Cooling of natural convection)

Caution : HANDLE WITH CARE !

Do not drop a lamp assembly or touch a glass bulb! The glass can shatter and may cause injury.

Note : Don't turn the adjustment screw.

Don't attempt to turn the screw for the optical axis adjustment on the lamp assembly. Readjusting is impossible. It will become to need the precise adjustment at a factory. **(Note :** Any of the projector models are not equipped with the adjustment screw on the lamp assemblies.**)**

Note : We recommend.

To maintain quality of picture (better balance of color and brightness in entire screen), we recommend replacing all 2 lamps at a time.

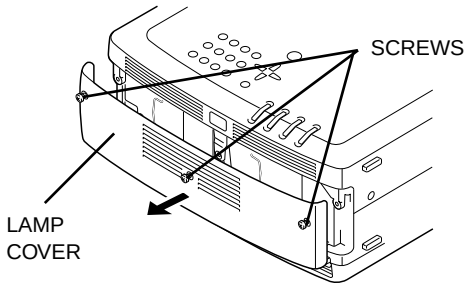
■ Lamp replacement procedure.

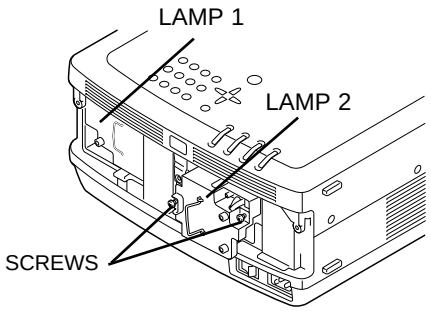
Follow these steps to replace lamp assembly.

1. Check number of lamp to be replaced on Lamp Status Display.
2. Turn off a projector and disconnect AC Power Cord. Allow a projector to cool for at least 45 minutes.
3. Loosen 3 screws on Lamp Cover and remove Lamp Cover. (See right figure.)
4. Loosen 2 screws and pull out Lamp Assembly to be replaced by grasping handle.
5. Replace Lamp Assembly with a new one and tighten 2 screws. Make sure that Lamp Assembly is set properly
6. Replace Lamp Cover and tighten 3 screws.
7. Connect AC Power Cord to a projector and turn projector on.
8. Reset Lamp Replacement Counter. (Refer to section "Lamp Counter Reset".)

⚠ Caution

Do not reset LAMP REPLACEMENT COUNTER when lamp is not replaced.





Make sure which number of lamp needs to be replaced on Lamp Status Display.
Figure shows case of replacing LAMP 2.

Lamp counter reset

Be sure to reset Lamp Counter when Lamp Assembly is replaced. When Lamp Replace Counter is reset, LAMP REPLACE indicator stops lighting.

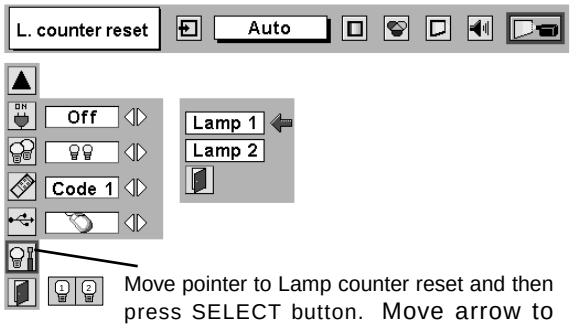
1 Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon.

2 Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SELECT button.

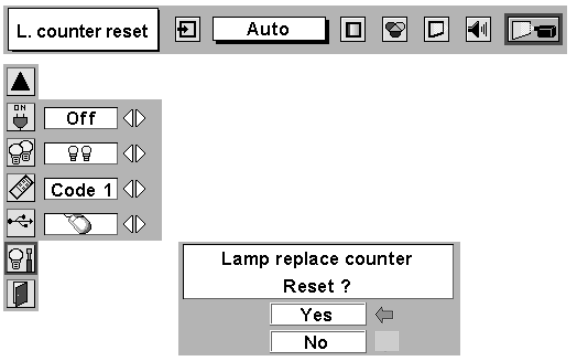
3 Move arrow to replaced lamp number (Lamp 1 or Lamp 2) and then press SELECT button. Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.

NOTE: Be sure to reset correct lamp number otherwise LAMP REPLACE indicator continues lighting.

4 Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.



Move pointer to Lamp counter reset and then press SELECT button. Move arrow to replaced lamp number (Lamp 1 or Lamp 2) and then press SELECT button.



Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.

Caution : Burst

Do not reset LAMP REPLACEMENT COUNTER except after projection lamp is replaced. Failure to observe this caution, when the useful life of the lamp passes, the LAMP REPLACE indicator do not light. It will have been using the lamp over which the useful life passed. It may cause the burst of the lamp.

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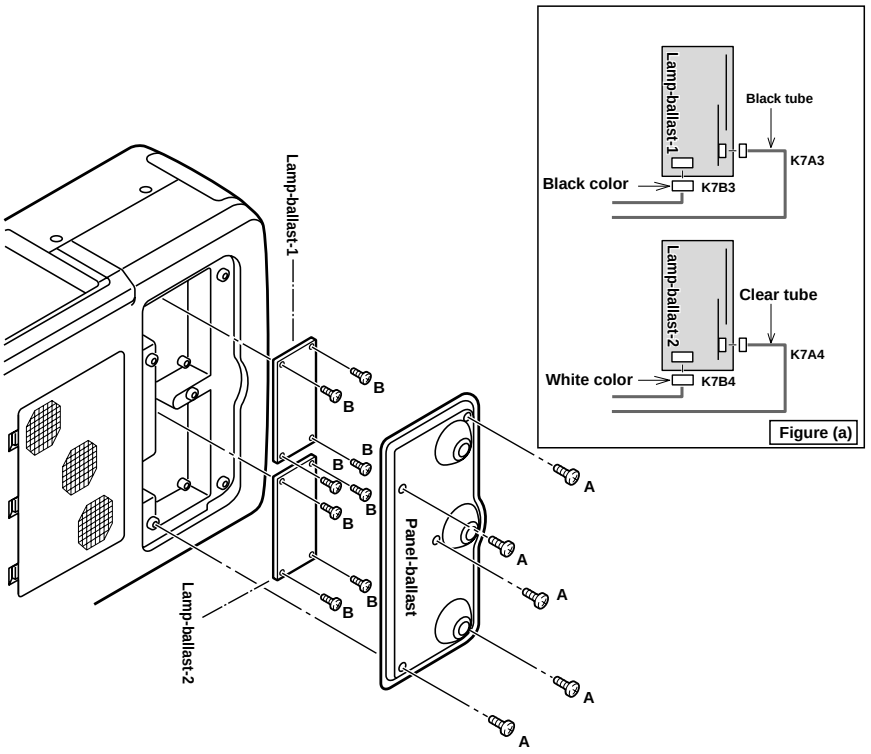
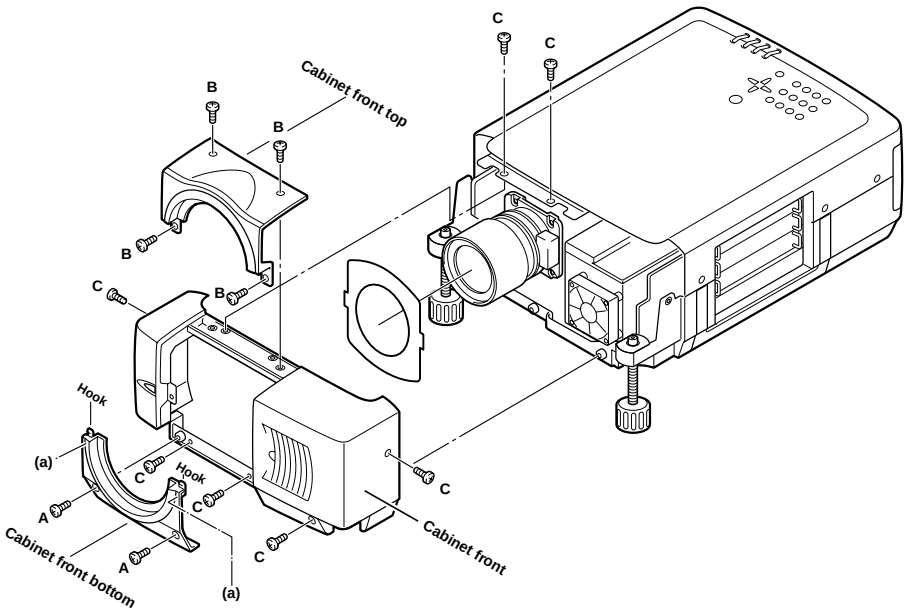


1. Panel ballast and Lamp ballast Assemblies removal.

1. Remove 5 screws A and remove the Panel ballast.
2. Remove the connectors. Remove 8 screws B and remove the 2 Lamp ballast assemblies.

Note :

When you re-connect the connector of lamp ballast assembly, be careful not to mistake. Refer to the figure-(a).

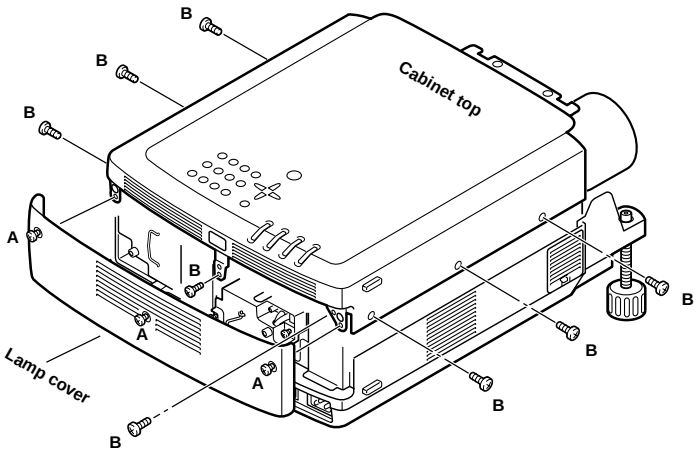


2. Cabinet front bottom, Cabinet front top and Cabinet front removal.

Note: **Be careful not to damage hook.**

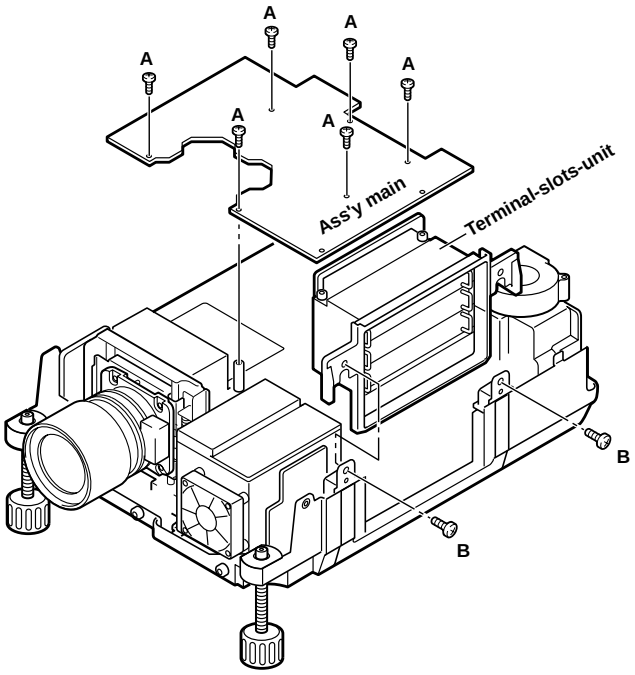
The cabinet front bottom is fixed by the hook.

1. Remove 2 screws-A. Push part(a) and pull the Cabinet-front-bottom down.
2. Remove 4 screws B and remove the Cabinet front top.
3. Remove 7 screws C and remove the Cabinet front.



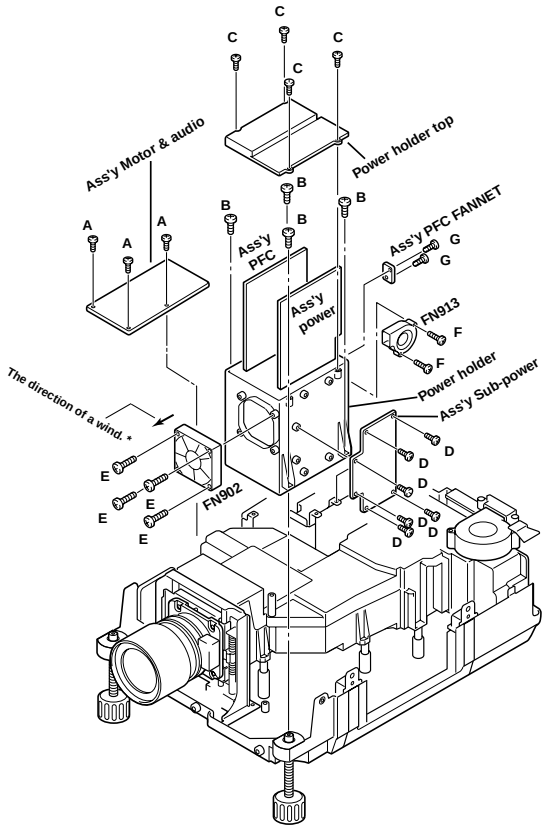
3. Lamp cover and cabinet top removal.

1. Turn 3 screws A and remove the Lamp cover. (**Note** : The screws A can not be removed from the Lamp cover.)
2. Remove 8 screws B and remove the Cabinet top.



4. Assembly main and Terminal slots unit removal.

1. Remove the connectors and the flexible cables of the LCD panels from the assembly Main. (Never touch the electrodes of flexible cables.) Remove 6 screws A and remove the Assembly main.
2. Remove 2 screws B and pull the Terminal slots unit upward and remove.

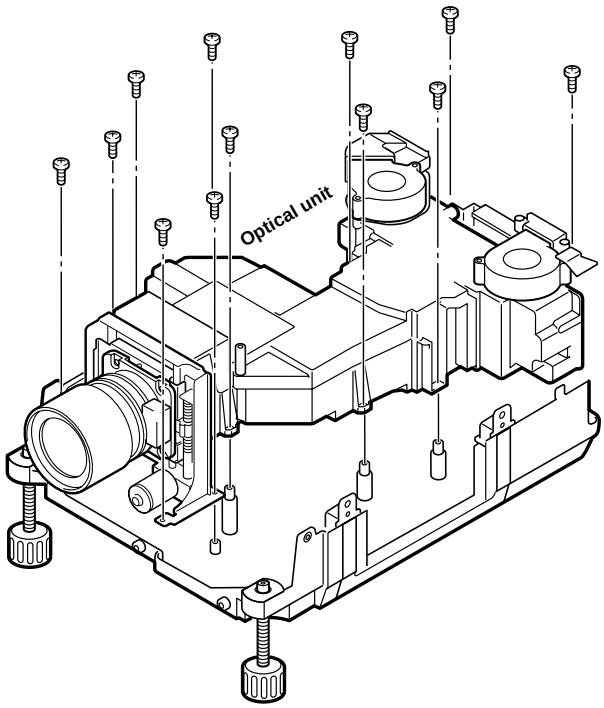


5. Assembly Motor & audio, assembly Power, assembly PFC, assembly Sub power, assembly PFC Fannet and Fan(FN902 and FN913) Removal.

⚠ Caution: **The following caution is the important matter for maintaining the safety of a product.**

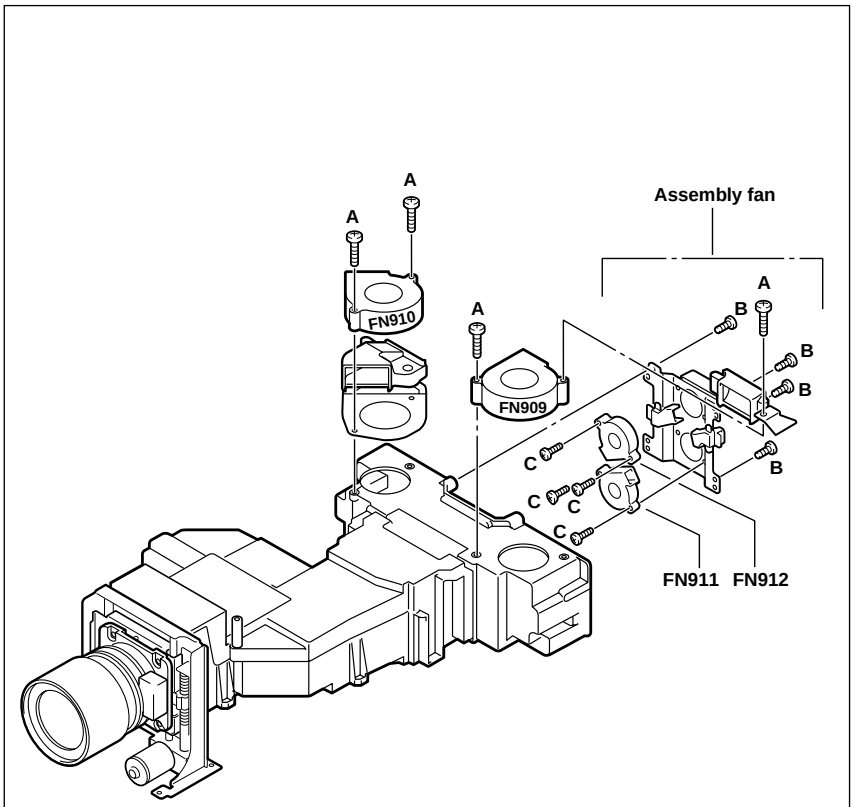
Don't mistake the attachment direction of the cooling fan in the case of a re-assembly. (Refer to the arrow in a figure.) If the attachment direction is mistaken, it will become the cause which the inside of the projector is unusually overheated and a fire or parts damage.

01. Remove 3 screws A and remove the assembly motor & audio.
02. Remove 4 screws B and remove the power holder.
03. Remove 4 screws C and remove the power holder top.
04. Remove 6 screws D and remove the assembly sub power.
05. See caution before the Fan (FN902) removal.
06. Remove 4 screws E and remove the Fan (FN902).
07. Remove 2 screws F and remove the Fan (FN913).
08. Remove 2 screws G and remove the assembly PFC Fannet.
09. Pull the assembly power upward and remove.
10. Pull the assembly PFC upward and remove.



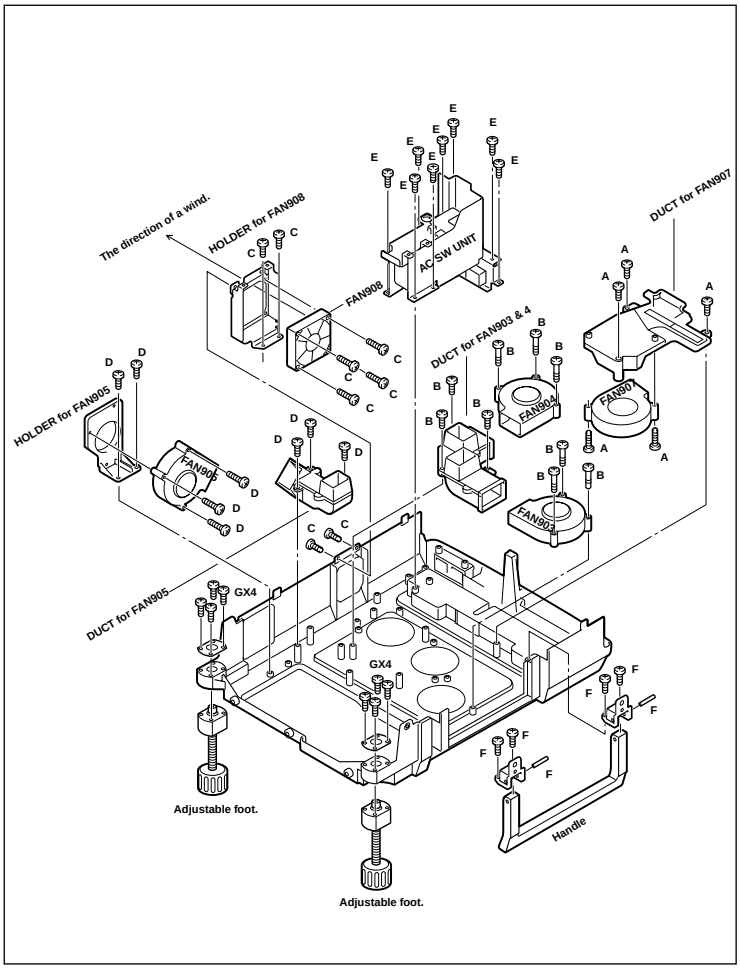
6. Optical unit removal.

Remove 12 screws and then pull the optical unit upward and remove.



7. Fans(FN909, FN910, FN911 and FN912) removal.

1. Remove 4 screws A and remove the fan FN909 and remove the fan FN910.
2. Remove 4 screws B and remove the assembly fan.
3. Remove 4 screws C and remove the fans FN911 and 912.



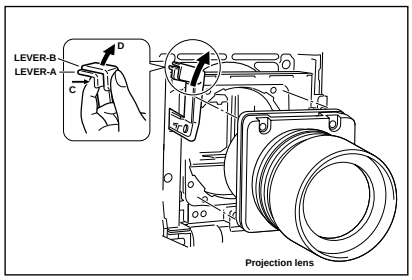
8. Fans(FN903, FN904, FN905, FN907 and FN908), AC SW unit, Handle and Adjustable feet removal.

⚠ Caution **The following caution is the important matter for maintaining the safety of a product.**

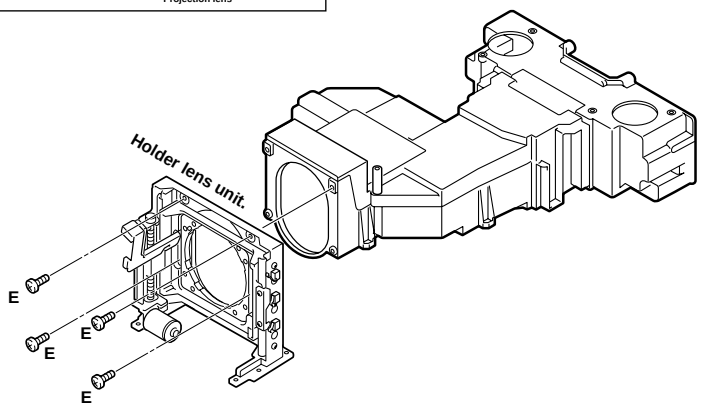
1. Don't mistake the attachment direction of the cooling fan in the case of a re-assembly. (Refer to the arrow in a figure.) If the attachment direction is mistaken, it will become the cause which the inside of the projector is unusually overheated and a fire or parts damage.

2. Careful marking of the Fans before their removal from the cabinet bottom, will ensure proper reassembly.

1. See caution-2 before the fans removal.
2. Remove 5 screws A and remove the duct for FN907 and remove the Fan (FN907).
3. Remove 9 screws B and remove the Fans (FN903 and FN904) and remove the duct for FN903/4.
4. See caution-1 before the Fan (FN908) removal. Remove 8 screws C and remove the holder for FN908 and remove the Fan (FN908).
5. Remove 8 screws D and remove the holder for FN905 and remove the Fan (FN905) and remove the duct for FN905.
6. Remove 8 screws E and remove the AC switch unit.
7. Remove 4 screws F and remove 2 pins F and remove the handle.
8. Remove 8 screws G and remove the adjustable feet.



Note:
Projection lens is optional. Refer to "Appendix" on pages 106-112.



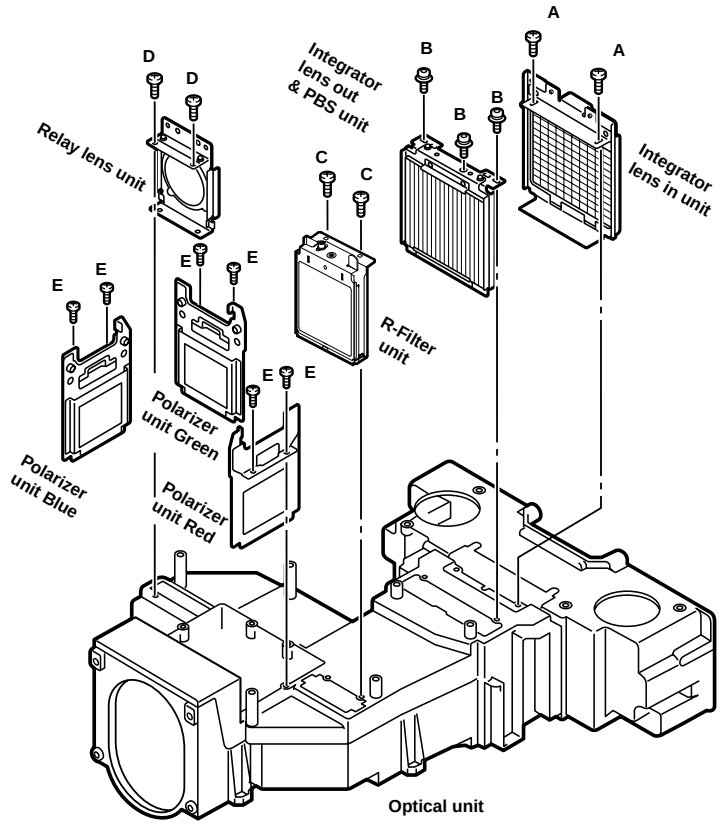
1. Projection lens and Holder lens unit removal.

Note :

1). The projection lens is **optional**, refer to the "appendix" on pages 106-112 for the available lens and its replacement and installation procedures.

2). Since this lens mounting system is **lever quick release type**, the lens can be replaced easily. However, since the weight of the projection lens is very heavy (2-6kg), be careful not to drop out it in the case of projection lens replacement.

1. Support the projection lens with the hand so that the projection lens does not drop out.
2. Pull the lever A ahead and slide the levers A and B to upper position. (The projection lens is released.)
3. Remove 4 screws E and remove the Holder lens unit.



2. Integrator lens in unit, Integrator lens out & PBS unit, R-Filter unit, Relay lens unit and Polarizer units removal.

Note : Each polarizer unit uses different characteristic polarization glasses. Careful marking of the Polarizer units before their removal from the optical unit, will ensure proper reassembly.

1. Remove 2 screws A and remove the Integrator lens in unit.
2. Remove 3 screws B and remove the Integrator lens out & PBS unit.
3. Remove 2 screws C and remove the R-Filter unit.
4. Remove 2 screws D and remove the Relay lens unit.
5. See note before the Polarizer units removal.
6. Remove 6 screws E and remove the 3 Polarizer units.
7. If each optical glass is replaced from each unit, **readjusting is needed** after reassembly. See page 72 and pages 48-52.

3. Lamp assemblies and Assembly mirror removal.

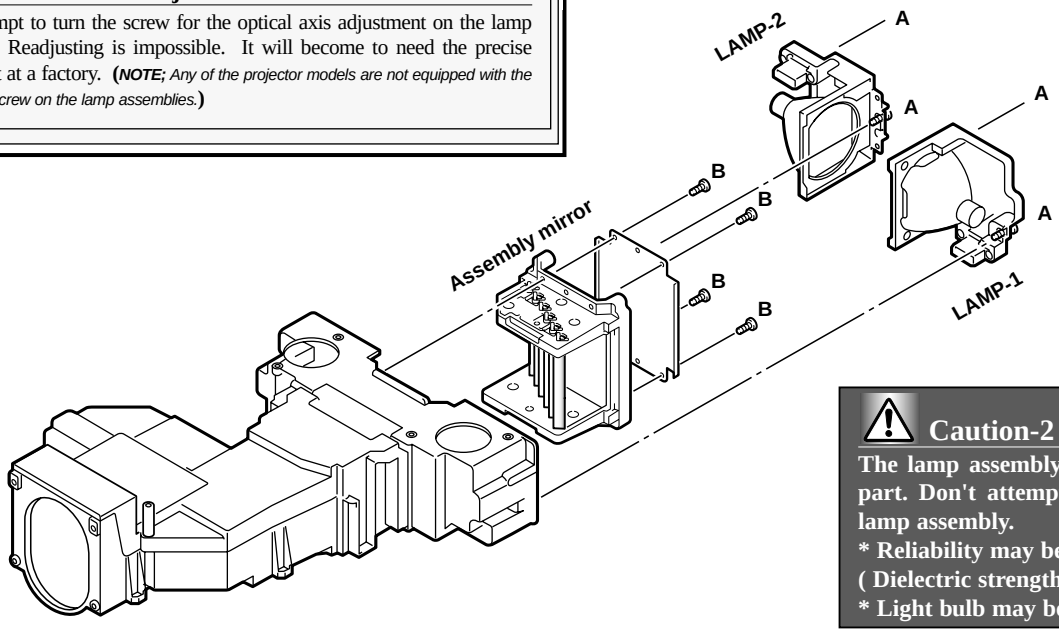
1. See **caution-1** before the lamp assemblies removal.
2. Turn 4 screws A and remove the 2 Lamp assemblies. (***Note :*** *The screws A can not be removed from the Lamp assemblies.*) See **caution-2**
2. Remove 4 screws B and remove the assembly mirror.

Note : Don't turn the adjustment screw.

Don't attempt to turn the screw for the optical axis adjustment on the lamp assembly. Readjusting is impossible. It will become to need the precise adjustment at a factory. (***NOTE;*** *Any of the projector models are not equipped with the adjustment screw on the lamp assemblies.*)

⚠ Caution-1 : The following caution is the important matter for maintaining the safety of a product.

Each illumination time of lamp is managed by CPU. Careful marking of the lamp assemblies before their removal from the optical unit, will ensure proper reassembly. If the locations of LAMP-1 and LAMP-2 are mistaken, the CPU can't manage each illumination time of the lamp. It will have been using the lamp over which the useful life passed. It may cause the burst of the lamp.

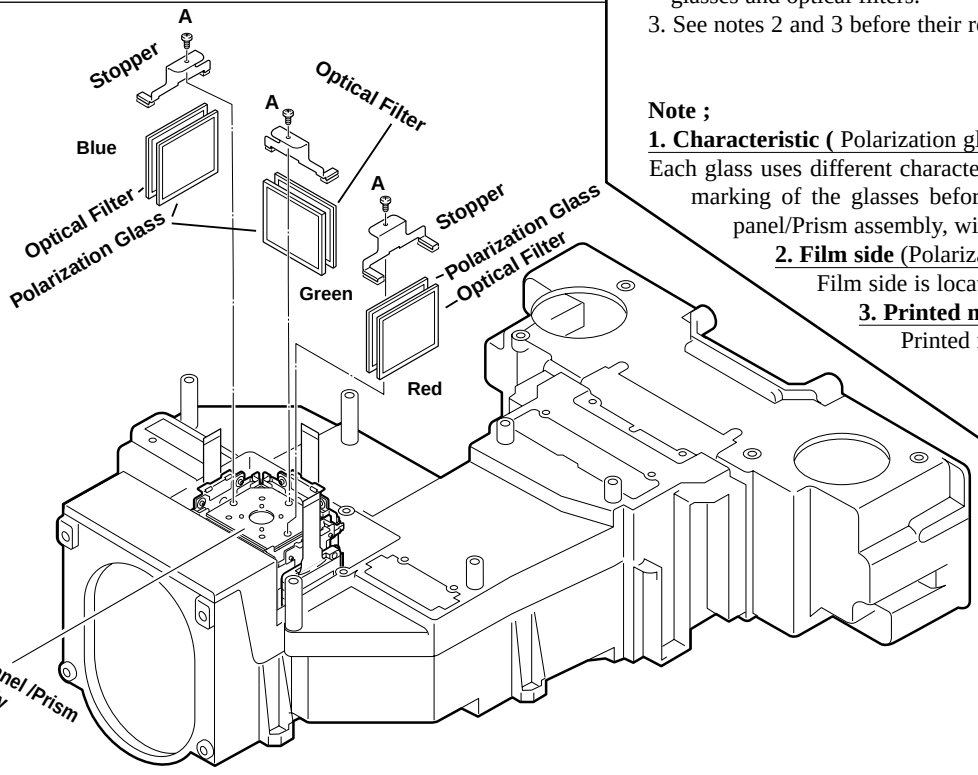


⚠ Caution-2 : Don't disassemble.

The lamp assembly is safety significant part. Don't attempt to disassemble the lamp assembly.
*** Reliability may be spoiled.**
(Dielectric strength / Thermal stability)
*** Light bulb may be damaged.**

4. Polarization glasses and optical filters removal.

1. See note-1 before the polarization glasses and optical filters removal.
2. Remove 3 screws A and stoppers, then remove the polarization glasses and optical filters.
3. See notes 2 and 3 before their reassembly.



Note ;

1. Characteristic (Polarization glasses and optical filters)

Each glass uses different characteristic polarizer or filter. Careful marking of the glasses before their removal from the LCD panel/Prism assembly, will ensure proper reassembly.

2. Film side (Polarization glasses and Optical filters)

Film side is located outside.

3. Printed mark (Optical filters)

Printed mark is located upside.

5. LCD panel /Prism assembly and LCD panel removal.

1. Remove 4 screws A and remove the LCD panel /Prism assembly. To readjust some of the adjustment items is needed after reassembly. See note-1.
2. See note-2, before the LCD panel removal.
3. Remove 3 screws B and remove the LCD panel. To readjust some of the adjustment items is needed after reassembly. See note-1.

Caution: Handle with care !

The LCD panel/Prism assembly is a **precision** part. Be sure to handle this part with special attention. Observe the following notes.

1. Be careful not to hit the LCD panel with the screwdriver. It may damage the parts and alignment.
2. Don't touch the LCD panel and prism part directly with hand. Otherwise the optical parts may get dirty.
3. Since the LCD panel is equipped with **CMOS-LSI**, pay attention to static electricity. And don't touch the electrode on flexible cable.

Note :

■ Note-1 Readjusting is needed. :

When the LCD panel /Prism assembly or the LCD-panel is replaced with new one, readjust the following adjustment items.

* Focus adjustment of LCD Panel (See page 45.)
* Convergence adjustment of LCD Panel (See pages 46-47.)
* 12. Flicker reduction (See page 42.)
* 13. White balance adjustments (See page 42.)
* 14. Unevenness color correction (See page 42.)

But when the whole LCD panel /prism assembly is replaced with new one, to readjust the "Convergence Adjustment of LCD Panel" is unnecessary. *(Factory Convergence adjustment of LCD panel for new LCD panel /prism assembly has completed.)*

■ Note-2 :

Don't remove the LCD panels Red, Green and Blue simultaneously! It becomes impossible to adjust a convergence, if all the LCD panels are simultaneously replaced. When all the LCD panels are damaged, we recommend to replace the whole LCD panel /prism assembly with new one.

Don't touch the electrodes on flexible cables.

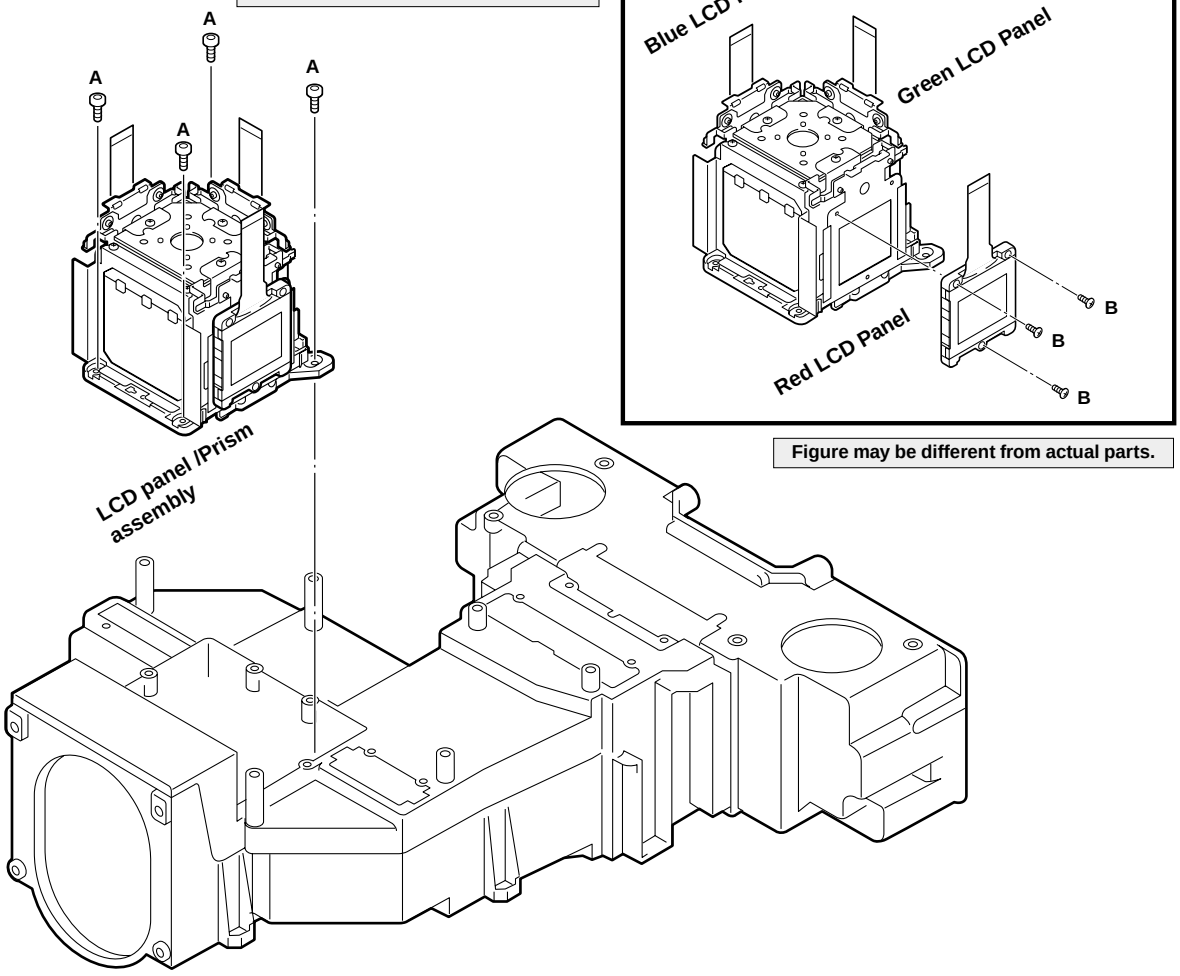
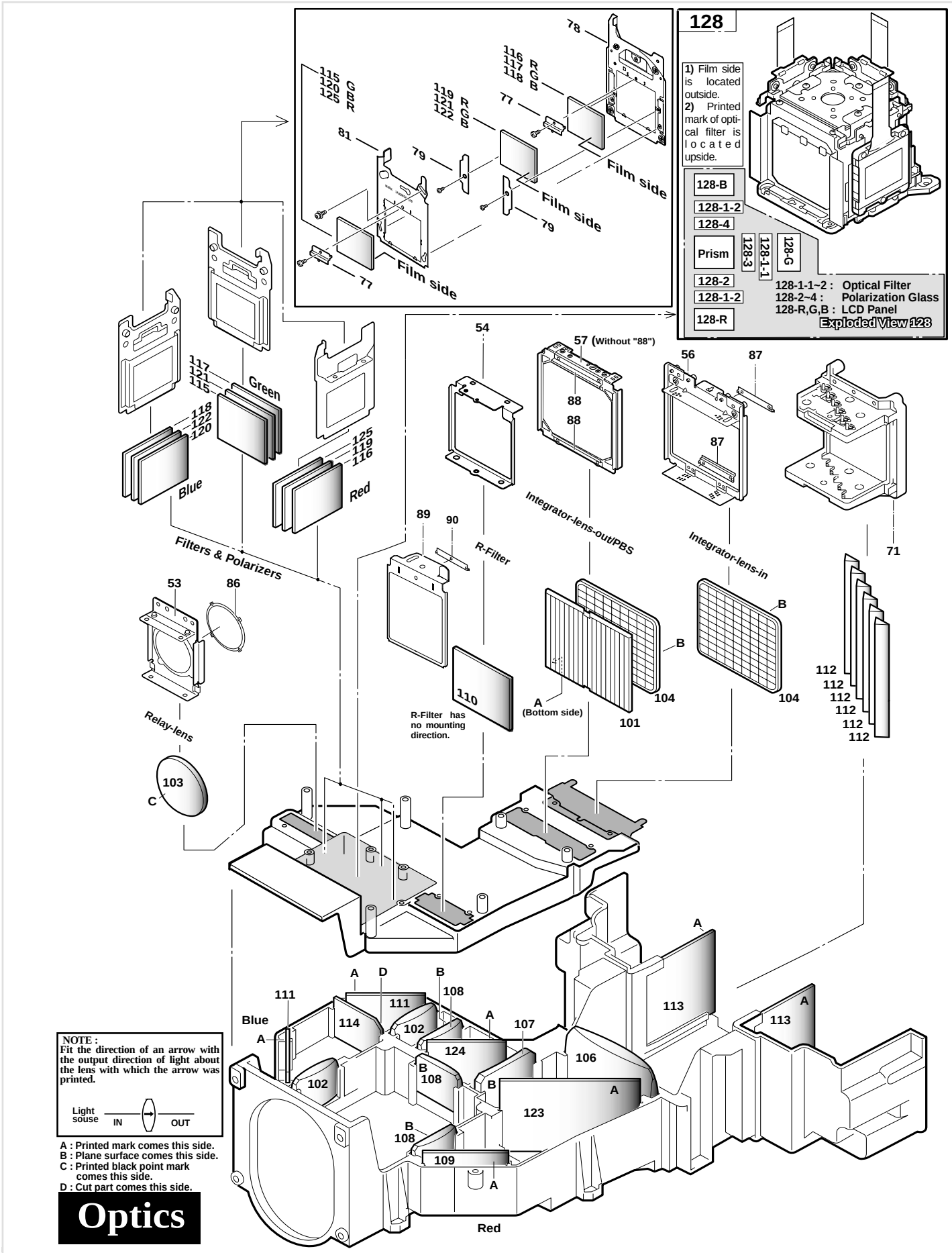


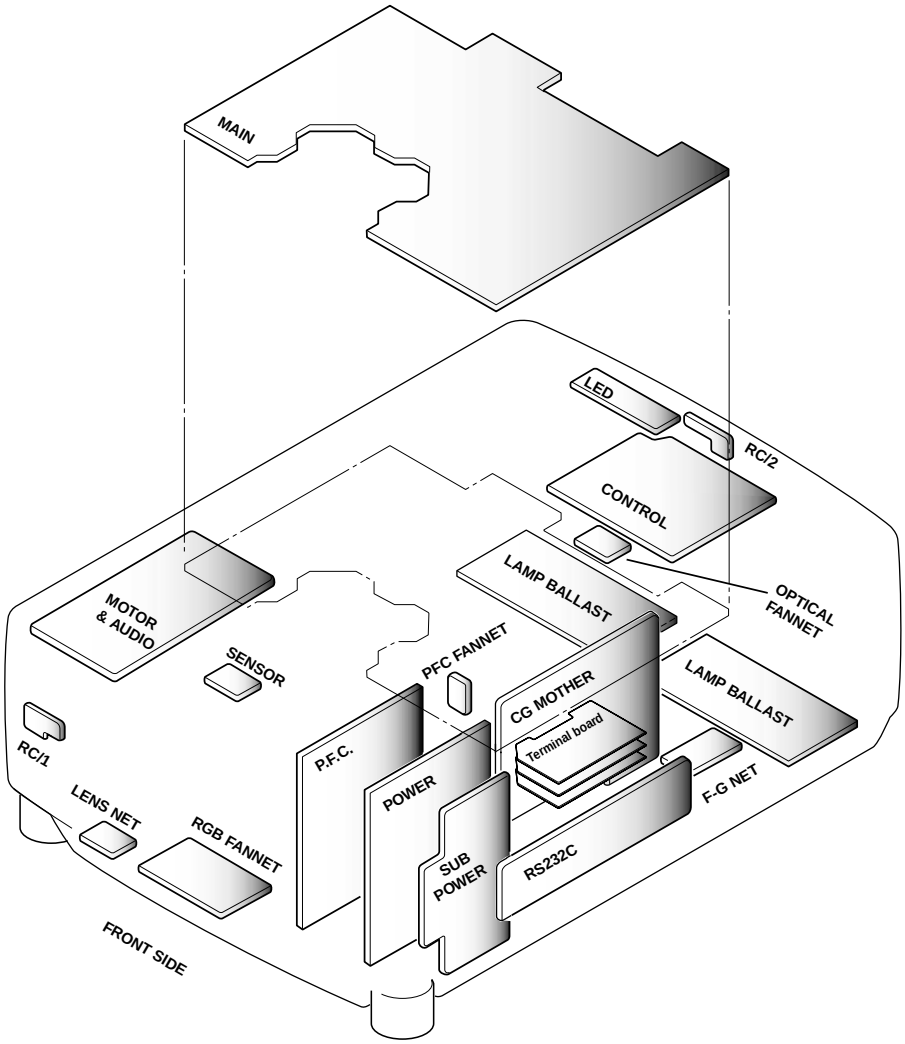
Figure may be different from actual parts.

Optical parts location

The part name(description) of optical parts can be seen on parts list(page 73).



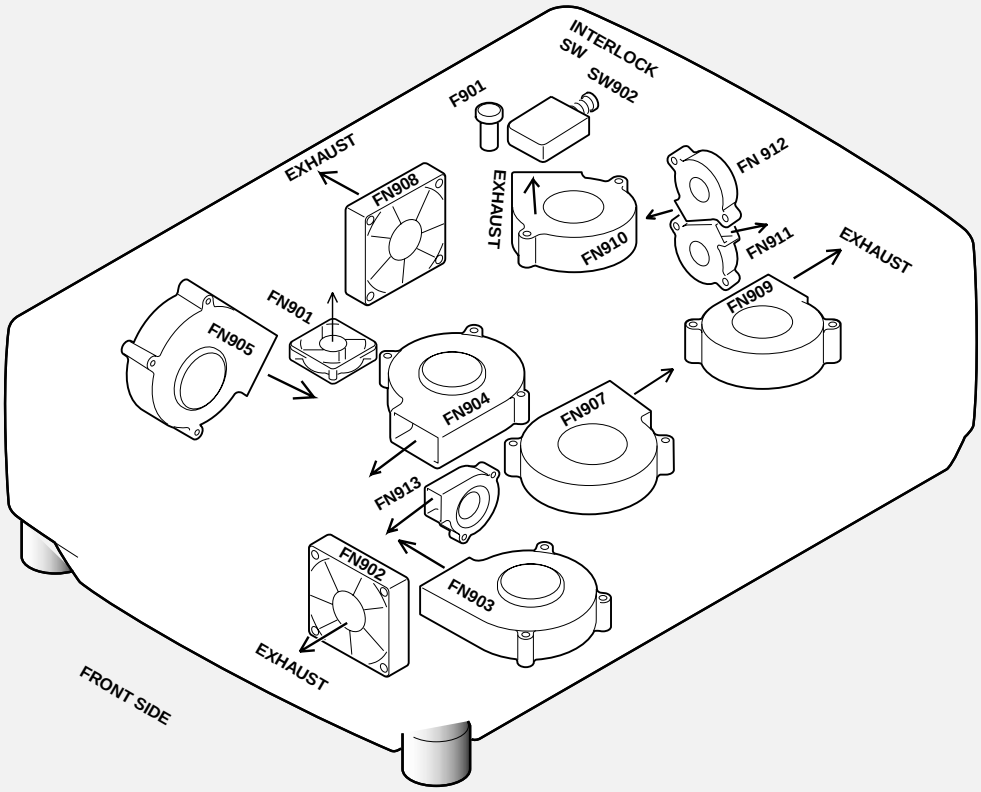
Optics



PWB ASSEMBLIES LOCATION

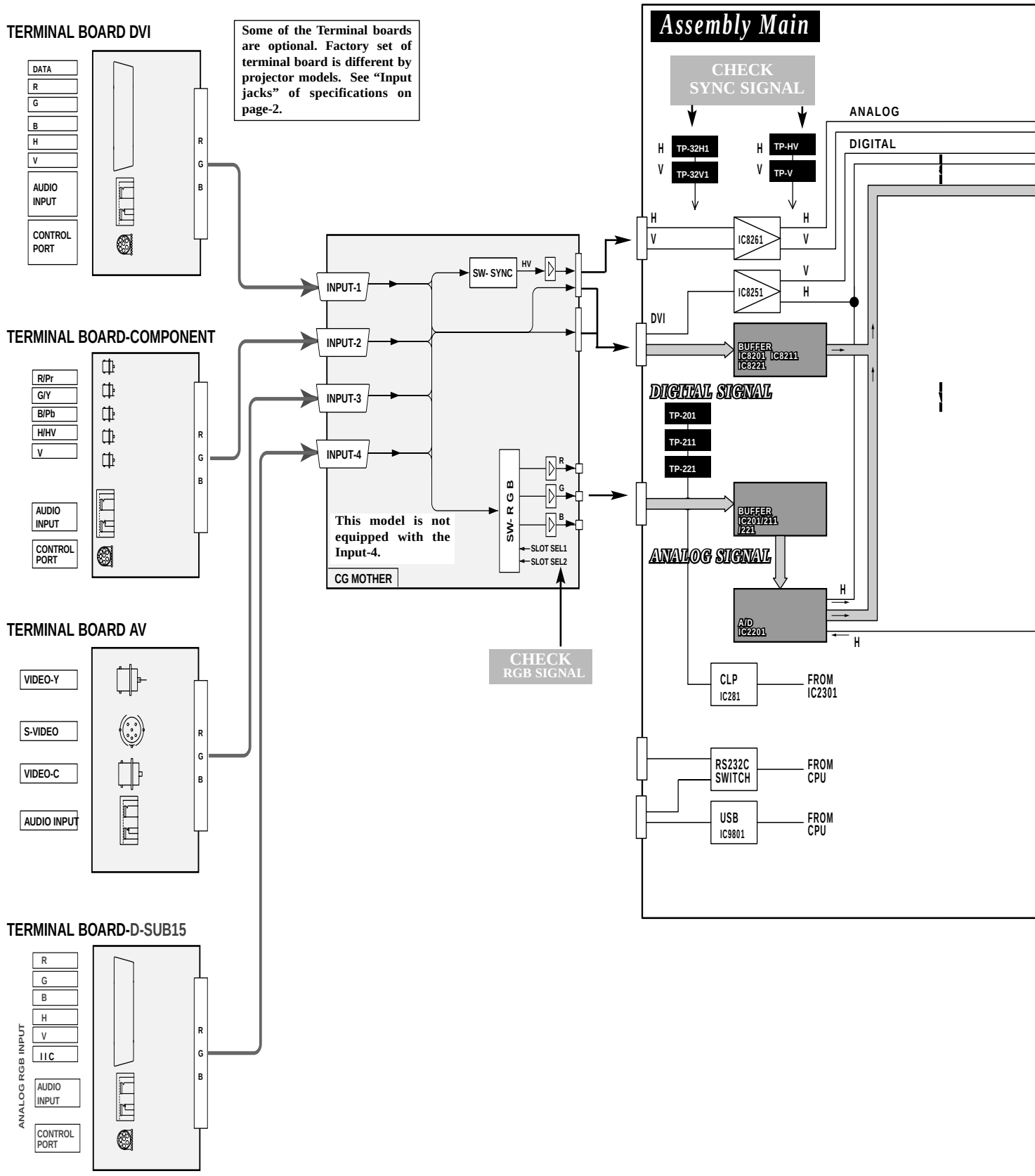
Caution ; The following caution is the important matter for maintaining the safety of a product.

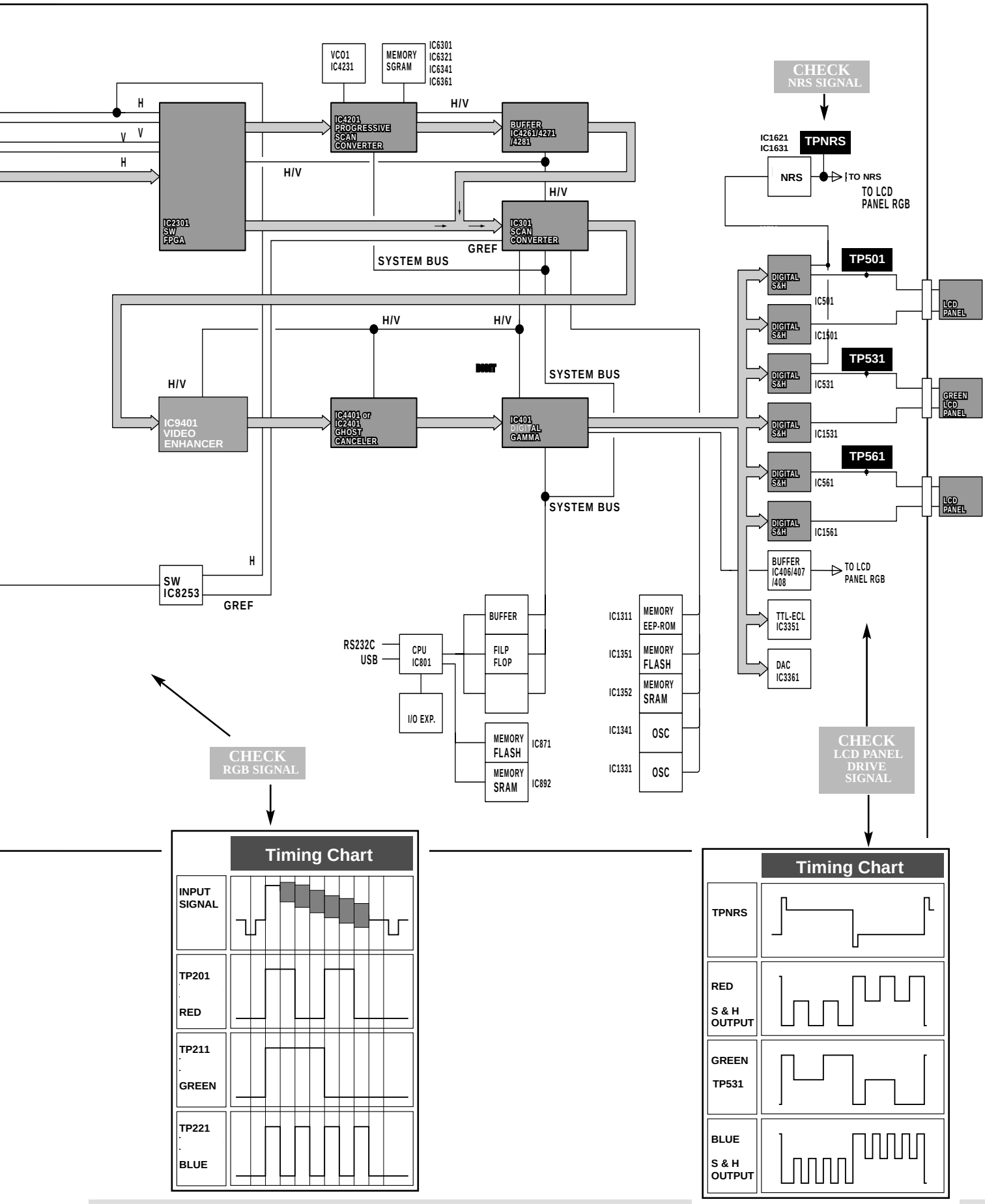
Don't mistake the attachment direction of the cooling fan in the case of a re-assembly. If the attachment direction is mistaken, it will become the cause which the inside of the projector is unusually overheated and a fire or parts damage.



←— :Direction of a wind.

MOTOR FANS LOCATION


TERMINAL BOARD DVI
DATA
R
G
B
H
V
AUDIO INPUT
CONTROL PORT
Some of the Terminal boards are optional. Factory set of terminal board is different by projector models. See "Input jacks" of specifications on page-2.
TERMINAL BOARD-COMPONENT
R/Pr
G/Y
B/Pb
H/HV
V
AUDIO INPUT
CONTROL PORT
TERMINAL BOARD AV
VIDEO-Y
S-VIDEO
VIDEO-C
AUDIO INPUT
TERMINAL BOARD-D-SUB15
ANALOG RGB INPUT
R
G
B
H
V
I I C
AUDIO INPUT
CONTROL PORT
INPUT-1
INPUT-2
INPUT-3
INPUT-4
SW- SYNC
HV
SW- R G B
SLOT SEL1
SLOT SEL2
CG MOTHER
This model is not equipped with the Input-4.
CHECK RGB SIGNAL
Assembly Main
CHECK SYNC SIGNAL
TP-32H1
TP-32V1
TP-HV
TP-V
ANALOG
DIGITAL
IC8261
IC8251
DVI
BUFFER IC8201 IC8211 IC8221
DIGITAL SIGNAL
TP-201
TP-211
TP-221
BUFFER IC201/211 /221
ANALOG SIGNAL
A/D IC2201
CLP IC281
FROM IC2301
RS232C SWITCH
FROM CPU
USB IC9801
FROM CPU


VCO1
IC4231
MEMORY
SGRAM
IC6301
IC6321
IC6341
IC6361
H
V
H
IC2301
SW
FPGA
IC4201
PROGRESSIVE
SCAN
CONVERTER
H/V
BUFFER
IC4261/4271
/4281
H/V
IC301
SCAN
CONVERTER
GREF
SYSTEM BUS
CHECK
NRS SIGNAL
IC1621
IC1631
TPNRS
NRS
TO NRS
TO LCD
PANEL RGB
TP501
DIGITAL
S&H
IC501
LCD
PANEL
IC1501
TP531
IC531
GREEN
LCD
PANEL
IC1531
TP561
IC561
LCD
PANEL
IC1561
H/V
H/V
H/V
IC9401
VIDEO
ENHANCER
IC4401 or
IC2401
GHOST
CANCELER
IC401
DIGITAL
GAMMA
SYSTEM BUS
SYSTEM BUS
H
SW
IC8253
GREF
BUFFER
IC406/407
/408
TO LCD
PANEL RGB
TTL-ECL
IC3351
DAC
IC3361
RS232C
USB
CPU
IC801
I/O EXP.
BUFFER
FILP
FLOP
MEMORY
FLASH
IC871
MEMORY
SRAM
IC892
IC1311
MEMORY
EEP-ROM
IC1351
MEMORY
FLASH
IC1352
MEMORY
SRAM
IC1341
OSC
IC1331
OSC
CHECK
RGB SIGNAL
CHECK
LCD PANEL
DRIVE
SIGNAL
Timing Chart
INPUT
SIGNAL
TP201
RED
TP211
GREEN
TP221
BLUE
Timing Chart
TPNRS
RED
S & H
OUTPUT
GREEN
TP531
BLUE
S & H
OUTPUT

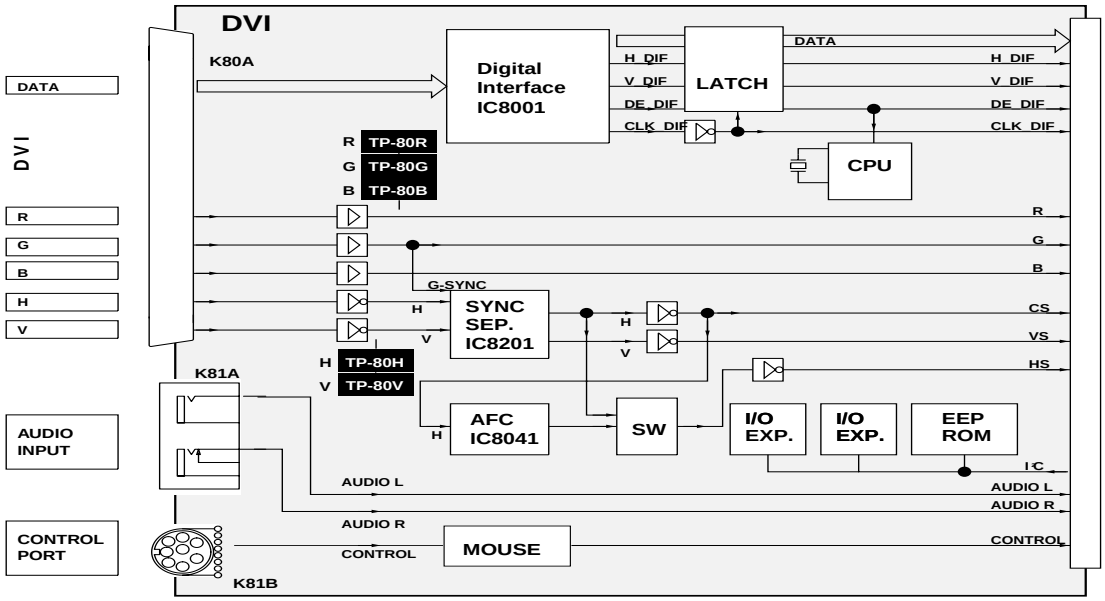
NO PICTURE -2

Troubleshooting

Some of the Terminal boards are optional. Factory set of terminal board is different by projector models. See "Input jacks" of specifications on page-2.

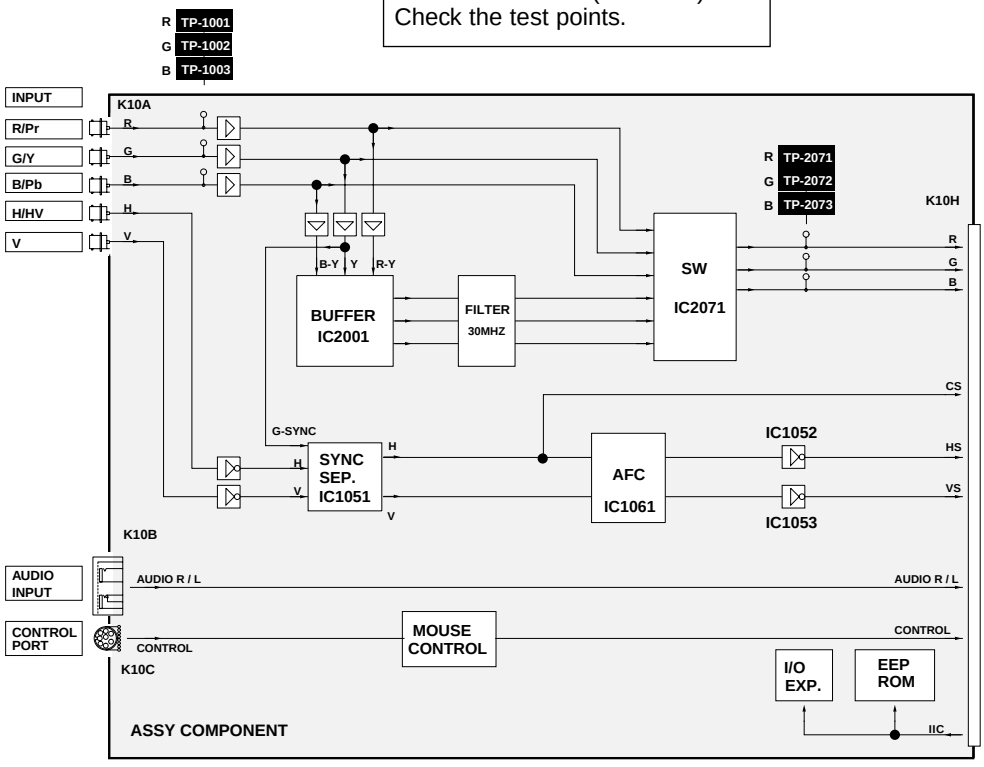
Check the terminal board-*DVI.*

Check the Vcc voltages.
S9V (Always)
5V/ -5V/ 9V (Switched)
Check the test points.



Check the terminal board-*COMPONENT.*

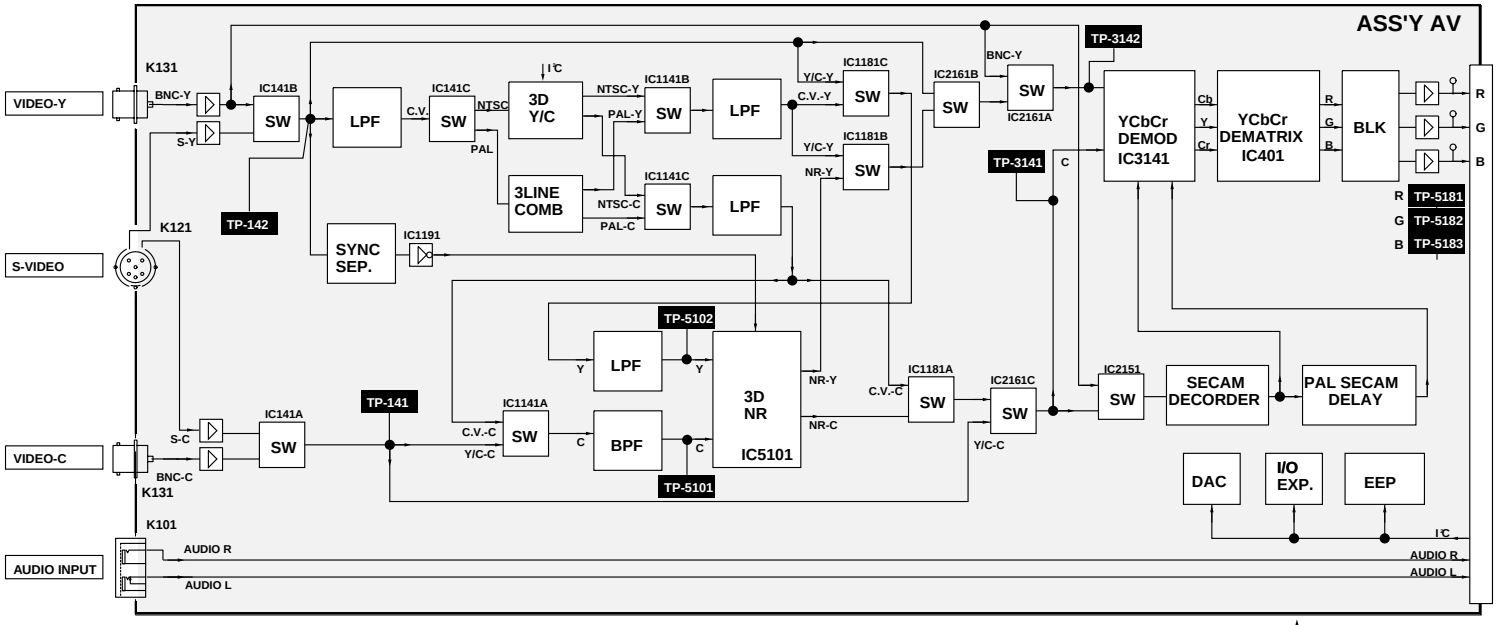
Check the Vcc voltages.
S9V (Always)
5V/ -5V/ 9V (Switched)
Check the test points.



Check the terminal board-*AV.*

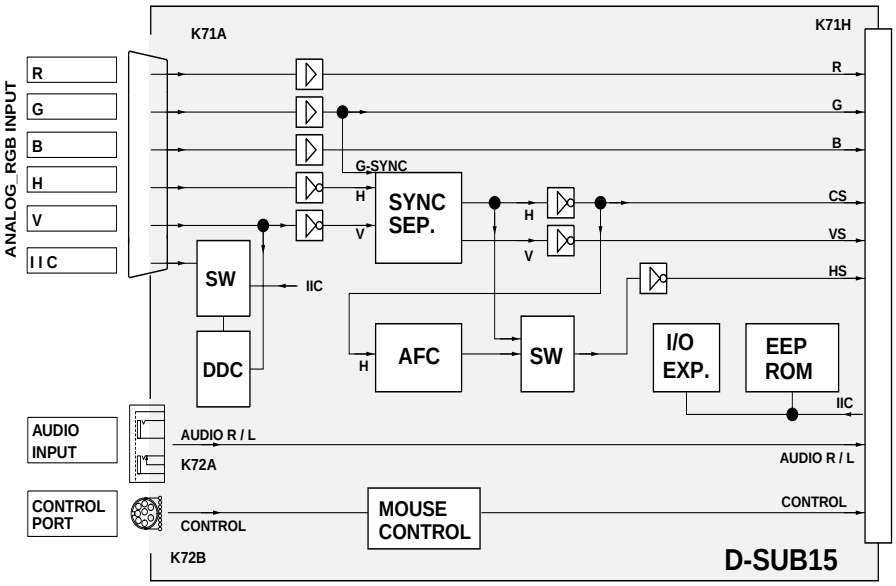
Check the Vcc voltages.
S9V (Always)
5V/ -5V/ 9V (Switched)
Check the test points.

Some of the Terminal boards are optional. Factory set of terminal board is different by projector models. See "Input jacks" of specifications on page-2.

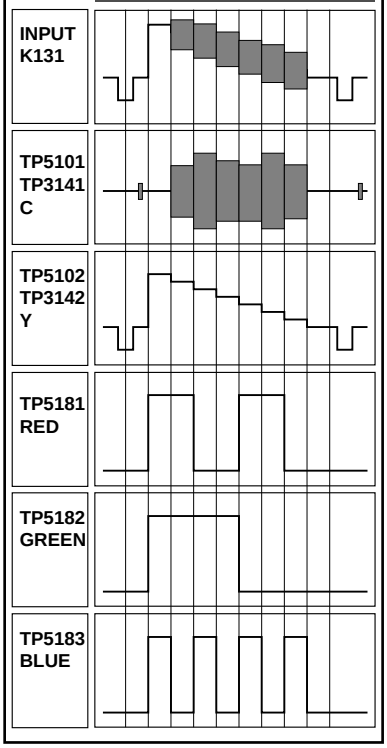


Check the terminal board-*DSUB15.*

Check the Vcc voltages.
S9V (Always)
5V/ -5V/ 9V (Switched)



Timing Chart



* NO POWER -1

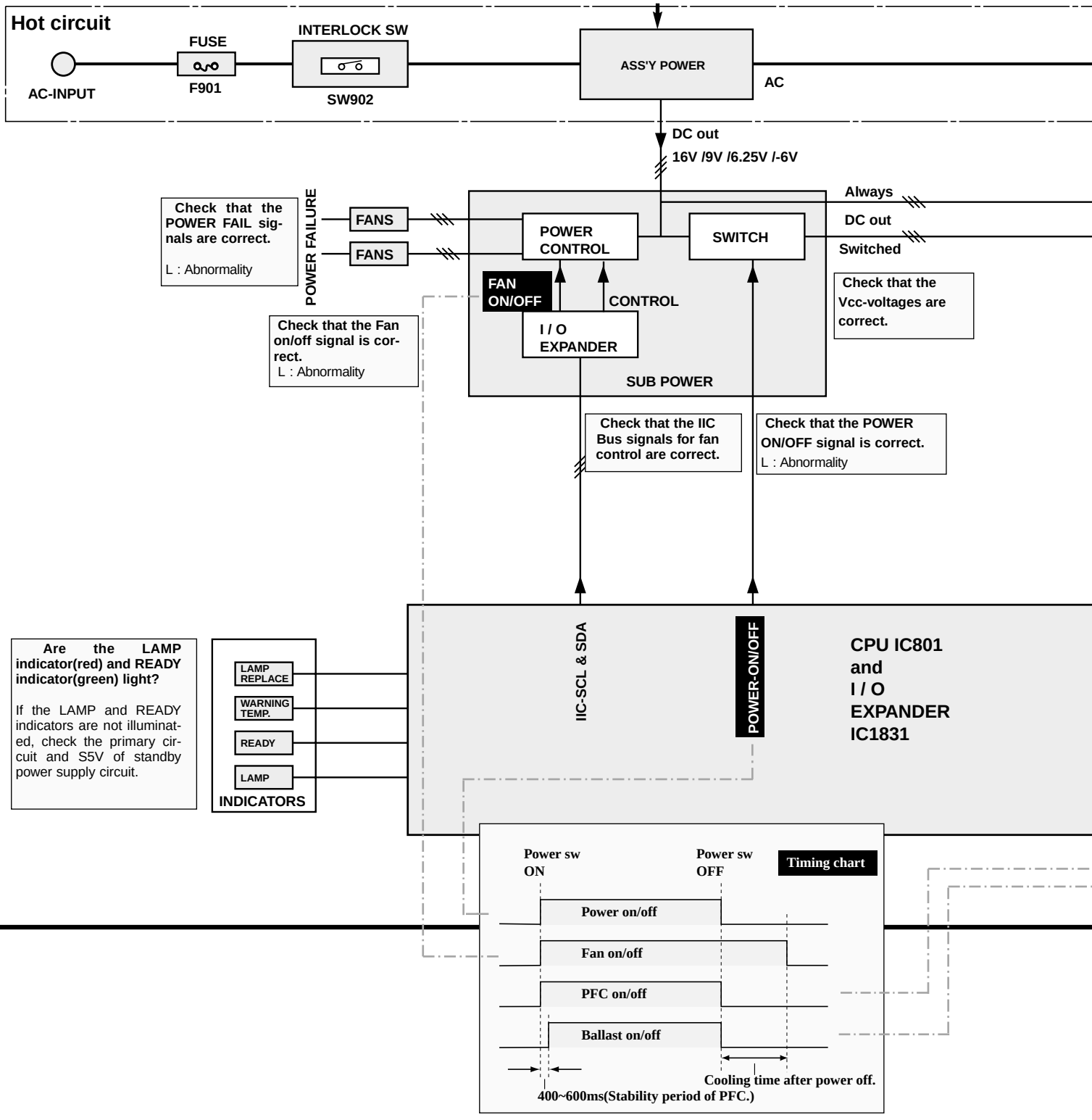
Troubleshooting

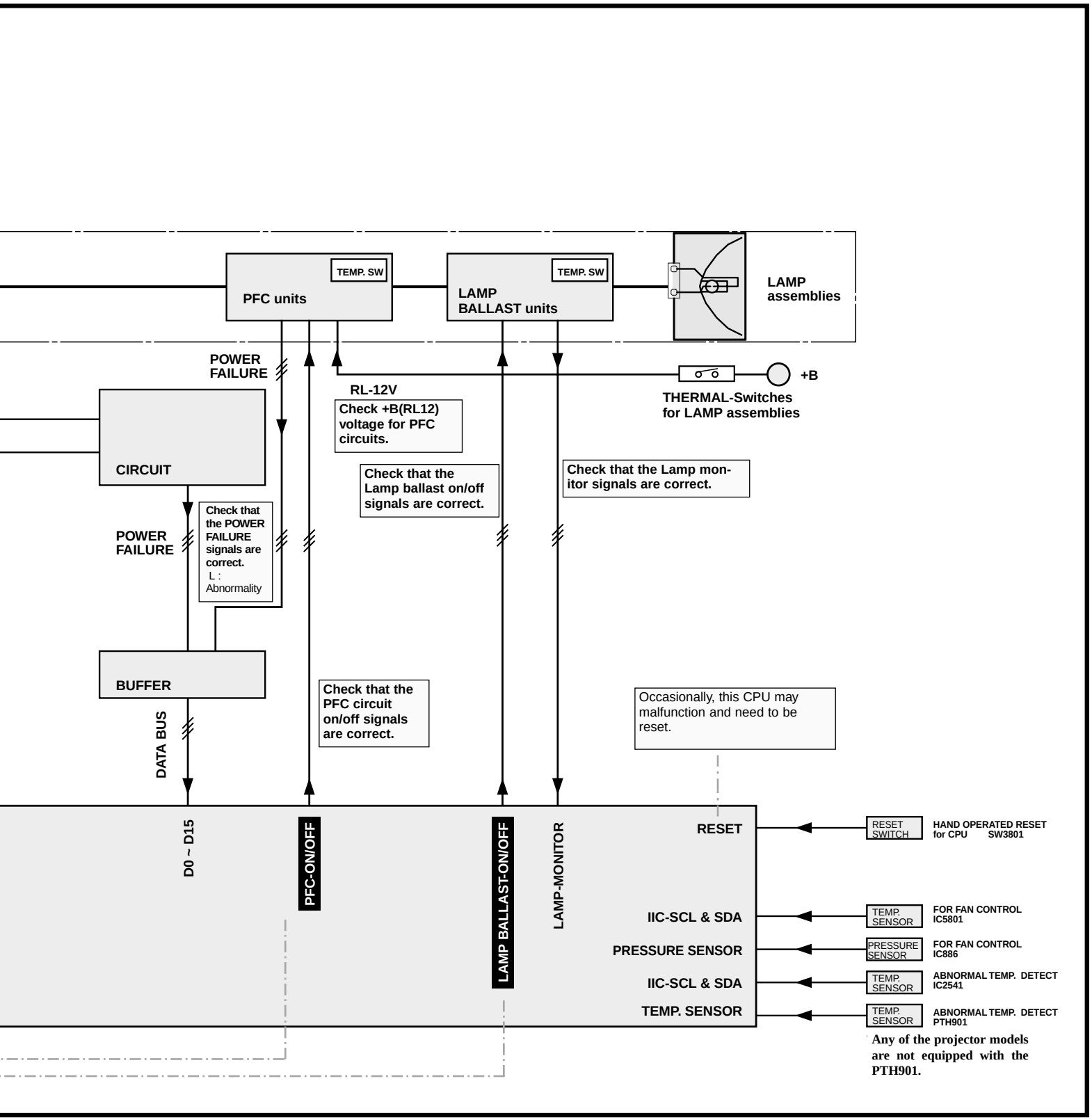
Is the fuse (F901) blown?
The fuse may be opened when either the LAMP indicator or the READY indicator isn't Illuminated. Check the fuse. For continued safety, replace it with a new fuse of the same type.

Are you thinking about turning on the projector without the lamp cover?
Remember that the interlock switch is opened during disassembling the cabinet. The projector can't be turned on. *(Some of the service personnel forget it often.)* When you turn on the projector without cabinet, press and hold the lever of the interlock switch.

Is the Interlock switch opened?
When the lamp cover isn't attached correctly or the boss inside the lamp cover is broken, the projector can't be turned on. Check the boss and the Interlock switch (SW902). Refer to figure on page 4.

Refer to page 24.




TEMP. SW
PFC units
TEMP. SW
LAMP
BALLAST units
LAMP
assemblies
POWER
FAILURE
RL-12V
+B
THERMAL-Switches
for LAMP assemblies
Check +B(RL12) voltage for PFC circuits.
CIRCUIT
Check that the Lamp ballast on/off signals are correct.
Check that the Lamp monitor signals are correct.
POWER
FAILURE
Check that the POWER FAILURE signals are correct.
L : Abnormality
BUFFER
DATA BUS
Check that the PFC circuit on/off signals are correct.
Occasionally, this CPU may malfunction and need to be reset.
D0 ~ D15
PFC-ON/OFF
LAMP BALLAST-ON/OFF
LAMP-MONITOR
RESET
IIC-SCL & SDA
PRESSURE SENSOR
IIC-SCL & SDA
TEMP. SENSOR
RESET SWITCH
HAND OPERATED RESET for CPU SW3801
TEMP. SENSOR
FOR FAN CONTROL IC5801
PRESSURE SENSOR
FOR FAN CONTROL IC886
TEMP. SENSOR
ABNORMAL TEMP. DETECT IC2541
TEMP. SENSOR
ABNORMAL TEMP. DETECT PTH901
Any of the projector models are not equipped with the PTH901.

Check the switching regulator.

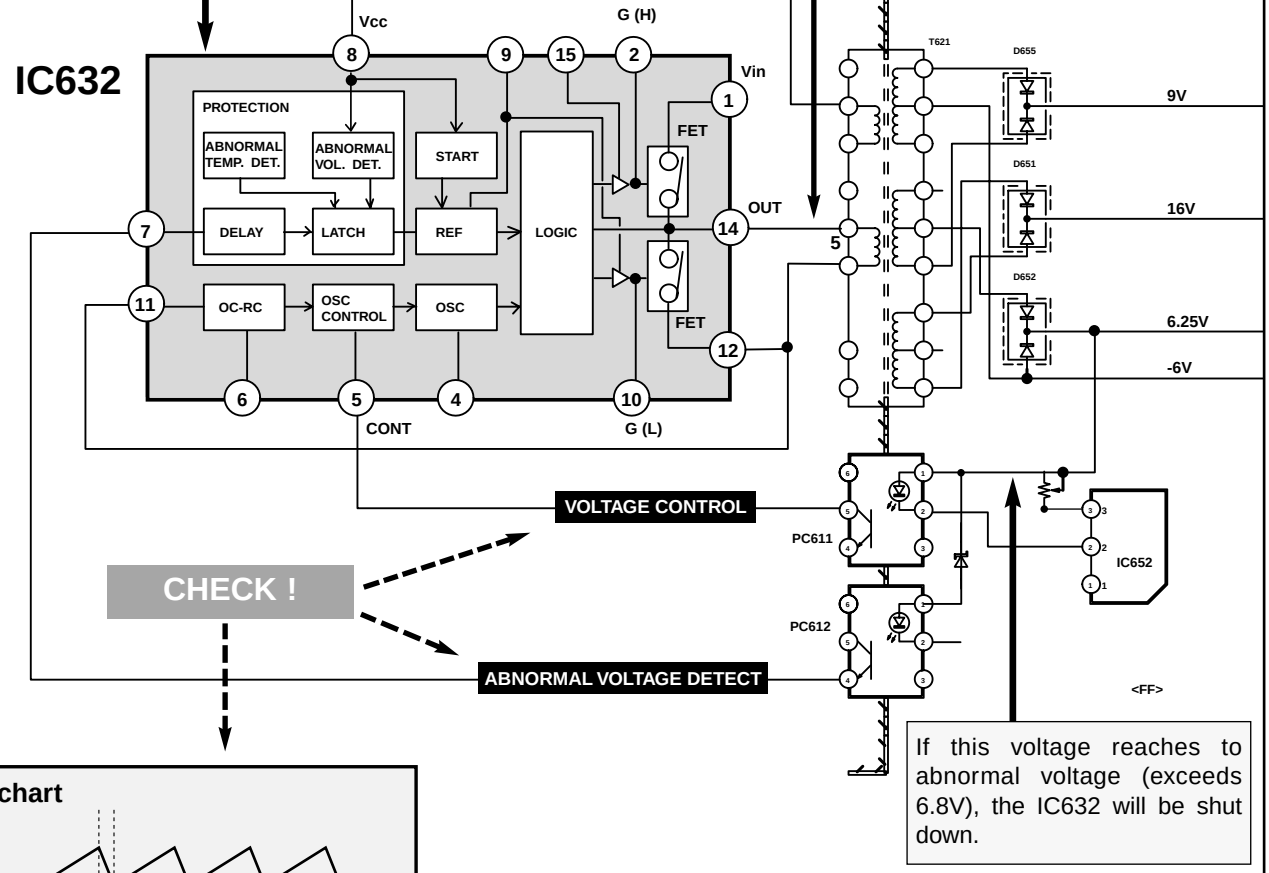
STR-Z2156
Switching regulator

Caution : " HOT " Circuit !

If this Vcc voltage reaches to abnormal voltage (exceeds 22V), the IC632 will be shut down.

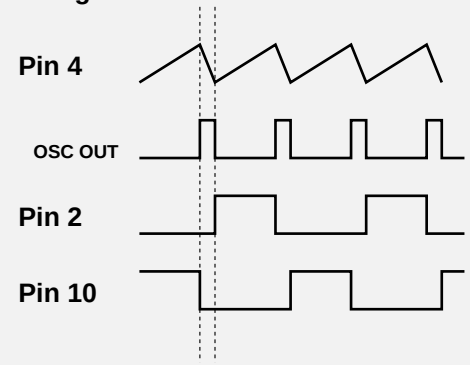
If a temperature of this frame reaches to 150˚C, the IC632 will be shut down.

Check the signal at pin 5 of T621. (Switching power IC output signal.)



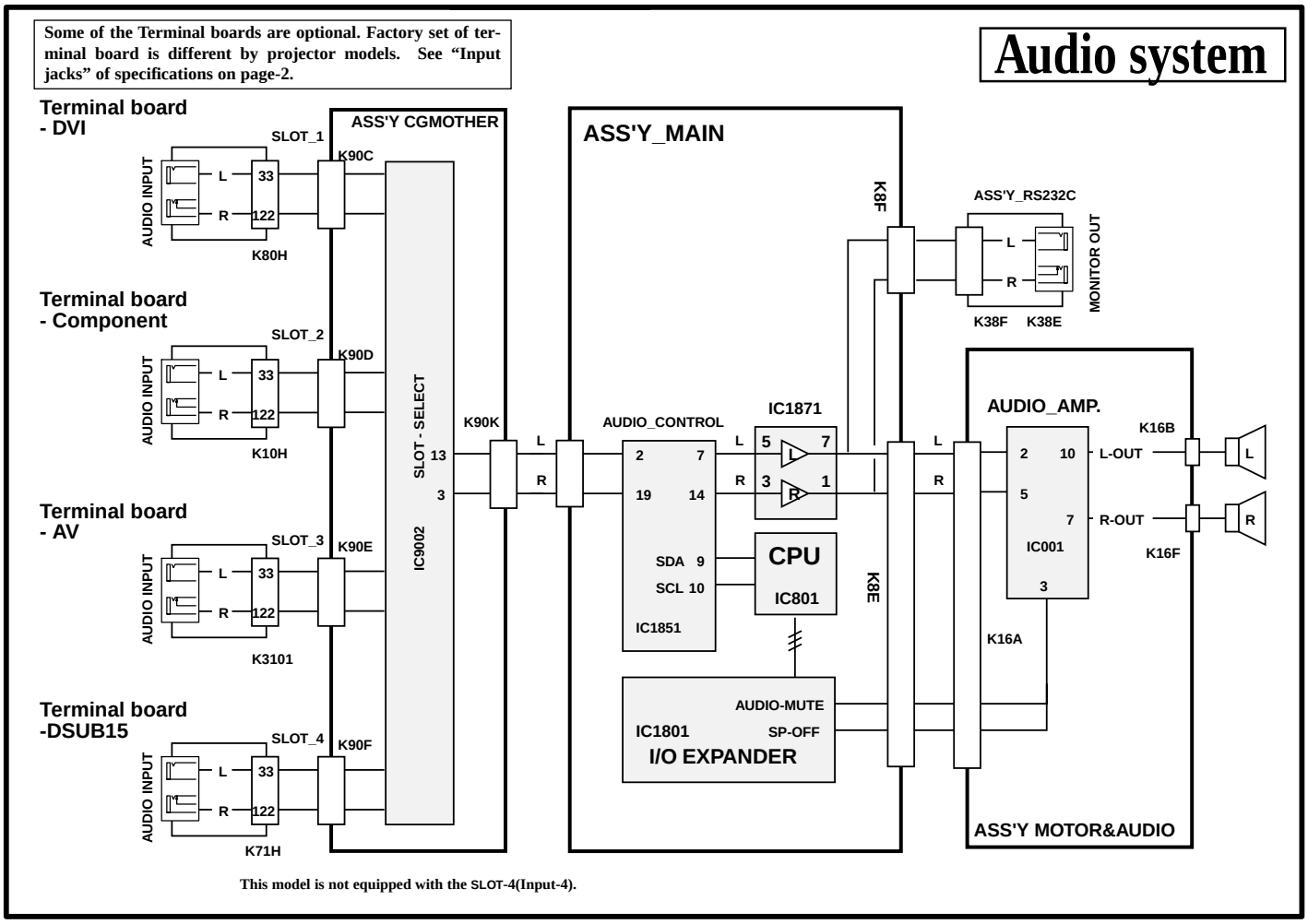
If this voltage reaches to abnormal voltage (exceeds 6.8V), the IC632 will be shut down.

Timing chart



No sound

Troubleshooting



■ Terminal boards DVI, Component, AV and D-SUB15 :

1. Check that the R and L signals are correct.
   Pins122(R) and 33(L).
   K80H, K10H, K3101 and K71H.

Some of the Terminal boards are optional. Factory set of terminal board is different by projector models. See "Input jacks" of specifications on page-2.

■ Assembly Motor audio :

1. Check that the Vcc-voltages are correct.
2. Check that the R and L input signals are correct.
   Pins 2(R) and 5(L) of IC001
3. Check that the AUDIO MUTE signal is correct.
4. Check that the SP-OFF signal is correct.
5. Check that the IC001 output signals are correct.
   Pins 10(L) and 7(R).

■ Assembly CG-Mother :

1. Check that the R and L signals are correct.
   Pins 3(R) and 13(L) of IC9002.

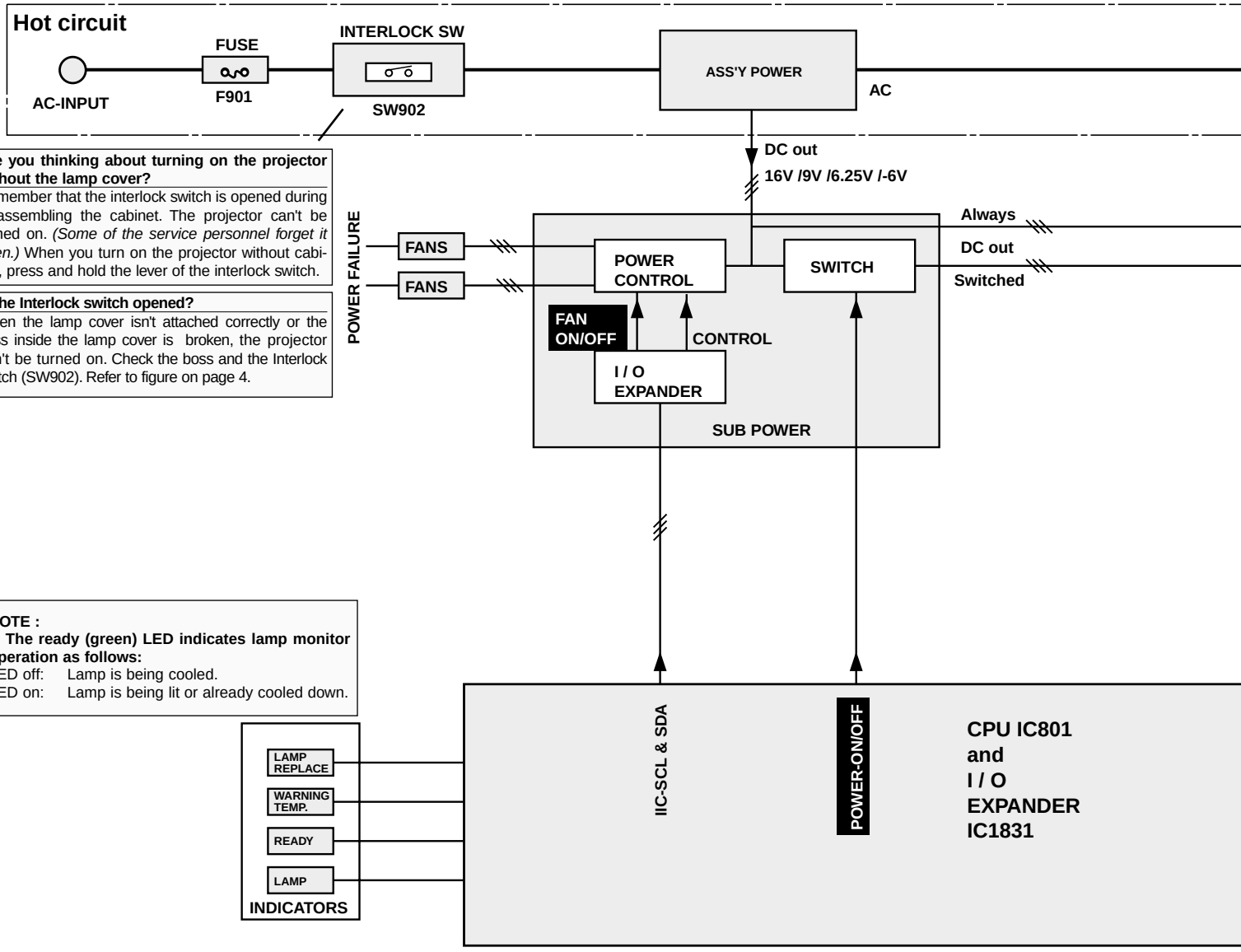
■ Assembly Main :

1. Check that the Vcc-voltages are correct.
2. Check that the R and L input signals are correct.
   Pins 2 and 19 of IC1851
3. Check that the IC1851 output signals are correct.
   Pins 7(L) and 14(R).
4. Check that the audio output signals are correct.
   Pins 7(L) and 1(R) of IC1871.
5. Check that the AUDIO MUTE signal is correct.
6. Check that the SP-OFF signal is correct.
7. Check that the SDA-signal is correct. Pin 9 of IC1851.
8. Check that the SCL-signal is correct. Pin10 of IC1851.

LAMP ABNORMALITY -1

NOTE : Light source lamp

- The lamp emits light through arc discharge. To initiate arc discharge, dielectric breakdown must occur between the lamp electrodes. The high-voltage pulse generator generates and applies high-voltage pulses with peak values of about 20kV between the lamp electrodes in order to generate glow discharge. This in turn results in dielectric breakdown between the electrodes, causing a shift from glow discharge to arc discharge.
- After projector turned on, 30 seconds are required until the light output stabilizes. After the projector is turned off, the cooling fan operates for 90 seconds to cool down the lamp and reduce gas pressure inside the lamp. During this "cooling down" period, the projector cannot be turned on.



Are you thinking about turning on the projector without the lamp cover?

Remember that the interlock switch is opened during disassembling the cabinet. The projector can't be turned on. *(Some of the service personnel forget it often.)* When you turn on the projector without cabinet, press and hold the lever of the interlock switch.

Is the Interlock switch opened?

When the lamp cover isn't attached correctly or the boss inside the lamp cover is broken, the projector can't be turned on. Check the boss and the Interlock switch (SW902). Refer to figure on page 4.

NOTE :

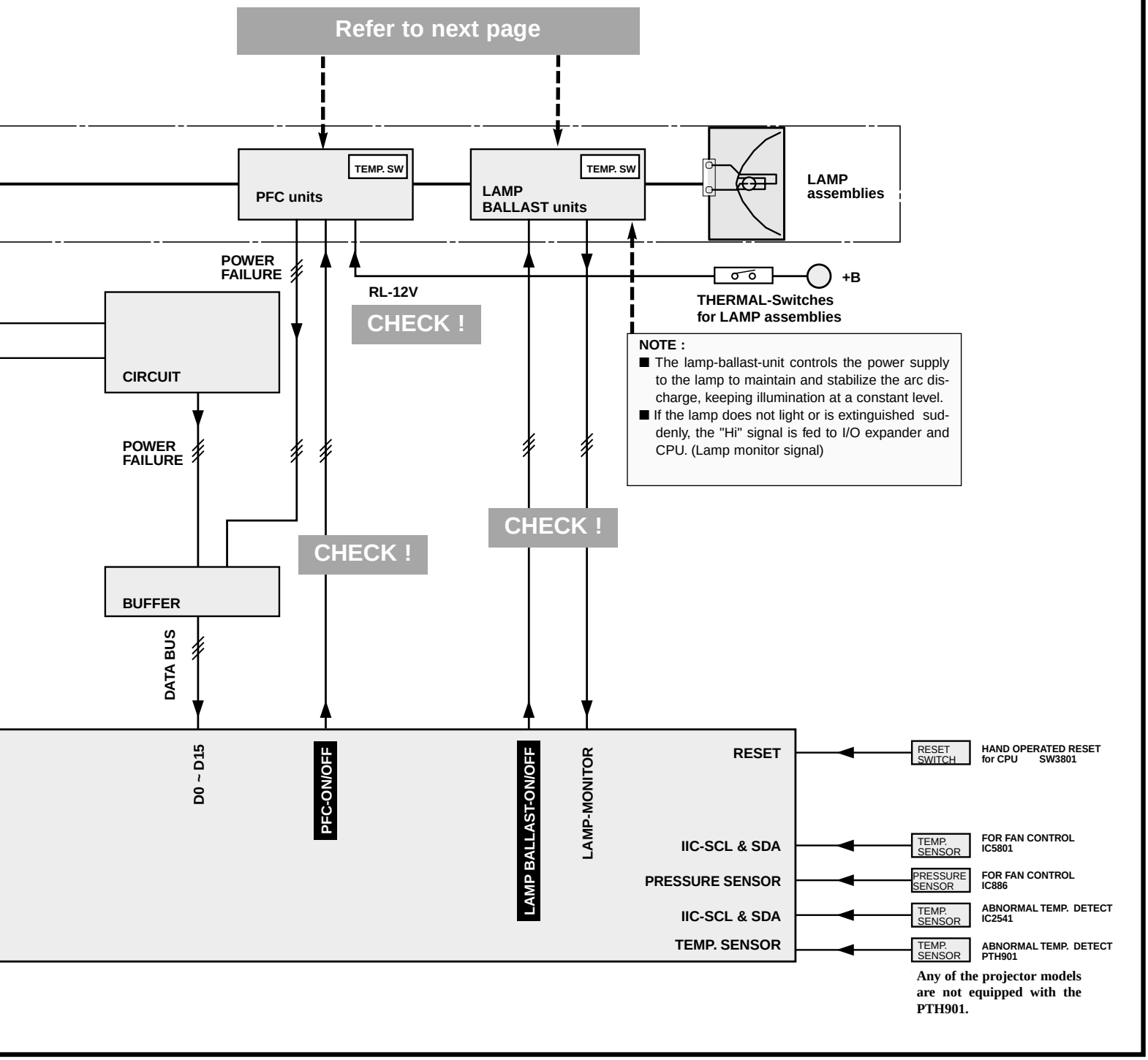
■ The ready (green) LED indicates lamp monitor operation as follows:

LED off: Lamp is being cooled.

LED on: Lamp is being lit or already cooled down.

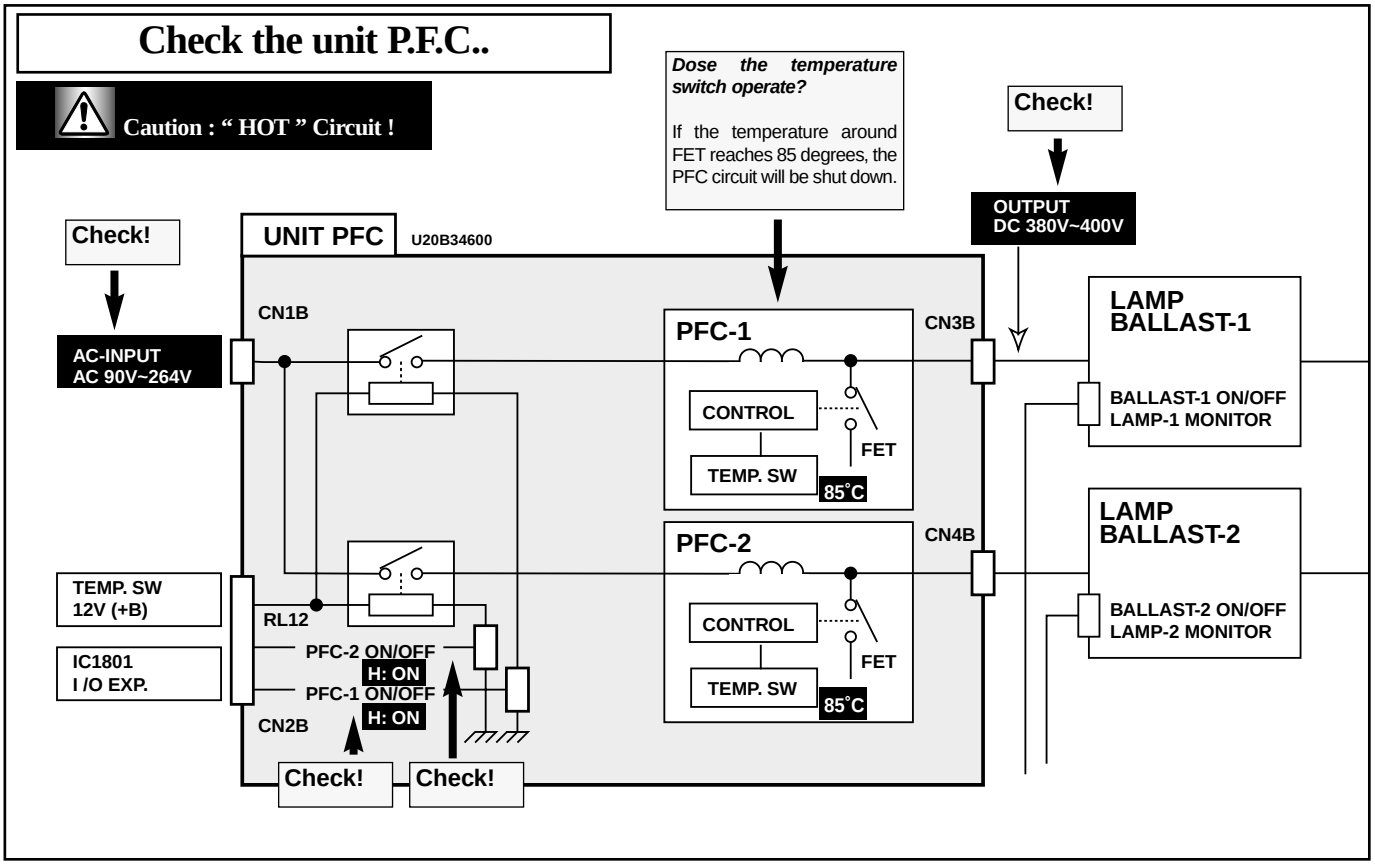
CPU : Lamp monitor operation.

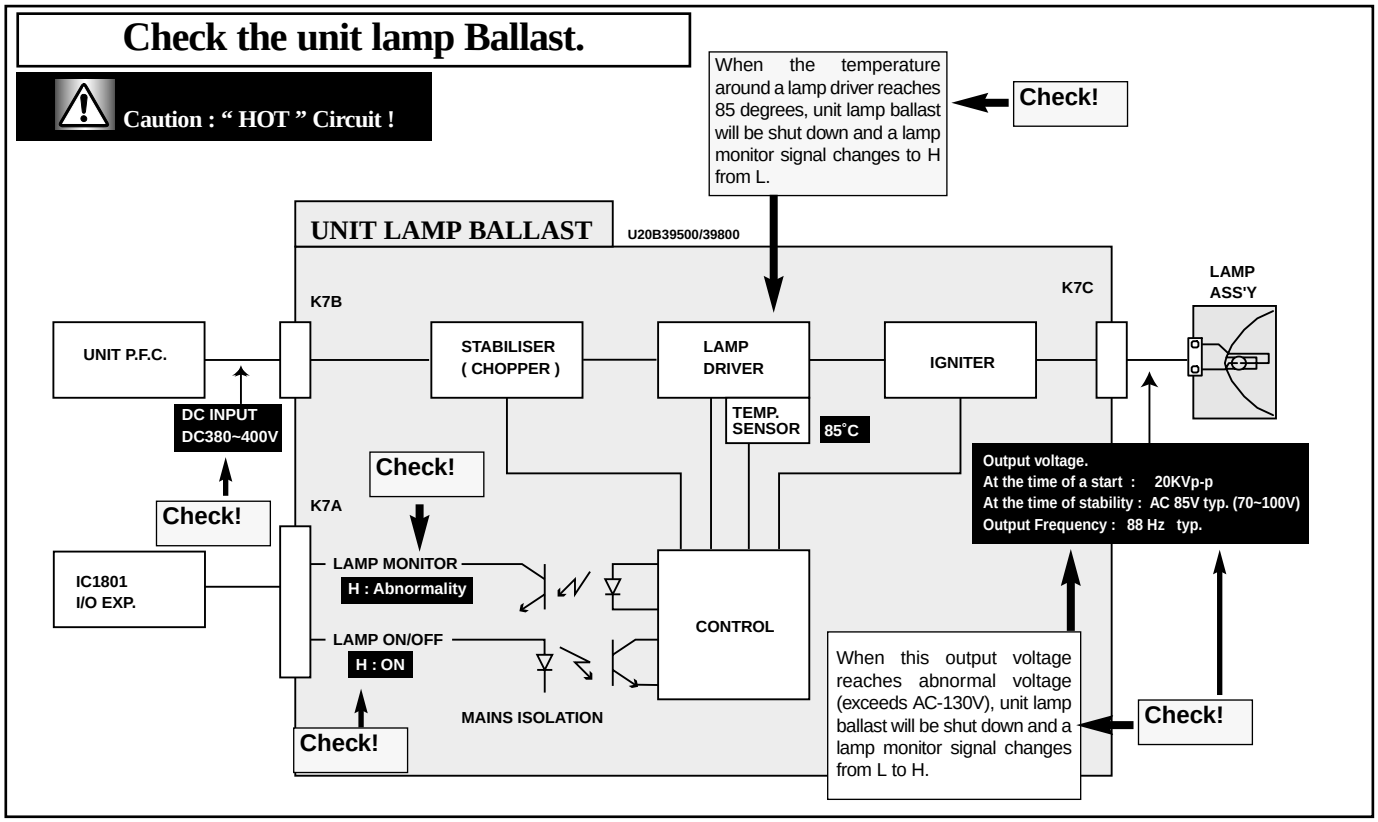
- CPU performs an input check by the lamp monitor pin.
- When the "H" signal continues 1 second or more continuously, CPU judges the state to be abnormal.
- When it has detected abnormal condition, CPU turns off a projector compulsorily. And CPU sets up the cooling time for 90 seconds.
- The projector cannot be turned on during a cooling time.


Refer to next page
TEMP. SW
PFC units
TEMP. SW
LAMP
BALLAST units
LAMP
assemblies
POWER
FAILURE
RL-12V
CHECK !
+B
THERMAL-Switches
for LAMP assemblies
CIRCUIT
NOTE :
■ The lamp-ballast-unit controls the power supply to the lamp to maintain and stabilize the arc discharge, keeping illumination at a constant level.
■ If the lamp does not light or is extinguished suddenly, the "Hi" signal is fed to I/O expander and CPU. (Lamp monitor signal)
POWER
FAILURE
CHECK !
CHECK !
BUFFER
DATA BUS
D0 ~ D15
PFC-ON/OFF
LAMP BALLAST-ON/OFF
LAMP-MONITOR
RESET
IIC-SCL & SDA
PRESSURE SENSOR
IIC-SCL & SDA
TEMP. SENSOR
RESET SWITCH
HAND OPERATED RESET for CPU SW3801
TEMP. SENSOR
FOR FAN CONTROL IC5801
PRESSURE SENSOR
FOR FAN CONTROL IC886
TEMP. SENSOR
ABNORMAL TEMP. DETECT IC2541
TEMP. SENSOR
ABNORMAL TEMP. DETECT PTH901
Any of the projector models are not equipped with the PTH901.

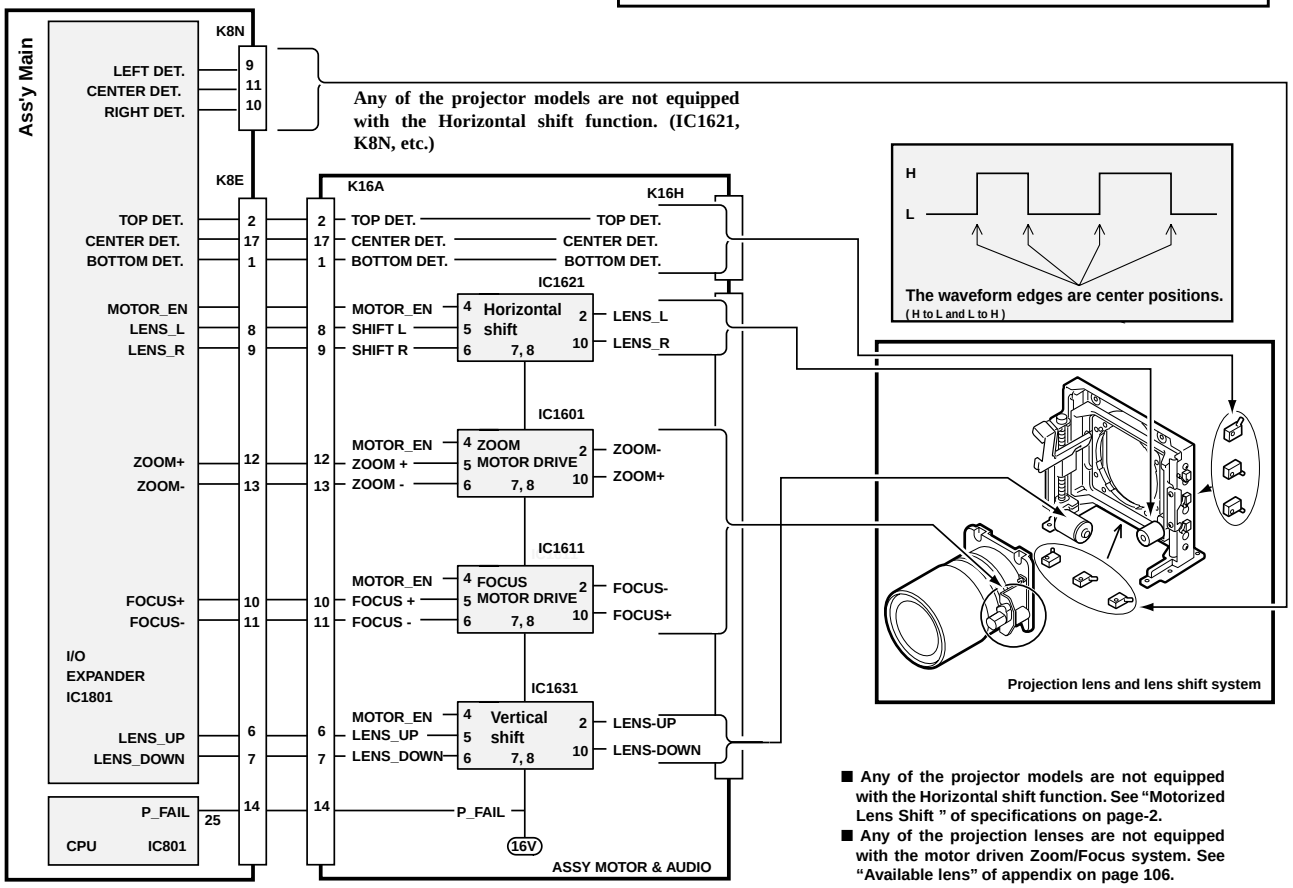
LAMP ABNORMALITY -2

Troubleshooting




Check the unit lamp Ballast.
Caution : " HOT " Circuit !
When the temperature around a lamp driver reaches 85 degrees, unit lamp ballast will be shut down and a lamp monitor signal changes to H from L.
Check!
UNIT LAMP BALLAST
U20B39500/39800
K7B
K7C
LAMP ASS'Y
UNIT P.F.C.
STABILISER (CHOPPER)
LAMP DRIVER
IGNITER
TEMP. SENSOR
85°C
DC INPUT DC380~400V
Check!
Check!
K7A
Output voltage.
At the time of a start : 20KVp-p
At the time of stability : AC 85V typ. (70~100V)
Output Frequency : 88 Hz typ.
IC1801 I/O EXP.
LAMP MONITOR
H : Abnormality
LAMP ON/OFF
H : ON
CONTROL
MAINS ISOLATION
Check!
When this output voltage reaches abnormal voltage (exceeds AC-130V), unit lamp ballast will be shut down and a lamp monitor signal changes from L to H.
Check!

Motor-driven lens system. (Zoom, Focus and lens shift.)



■ Assembly Main

1. Check that the Vcc-voltages are correct.
2. Check that the POWER FAIL signal is correct.
   Pin125 of IC801 H: Normal
3. Check that the LENS SHIFT up and down signals are correct.
   Pins 6 and 7 of K8E
4. Check that the LENS SHIFT left and right signals are correct.
   Pins 8 and 9 of K8E
5. Check that the FOCUS up and down signals are correct.
   Pins 10 and 11 of K8E
6. Check that the ZOOM up and down signals are correct.
   Pins 12 and 13 of K8E
7. Check that the TOP DET. signal is correct.
   Pin 2 of K8E L : TOP
8. Check that the BOTTOM DET. signal is correct.
   Pin 1 of K8E L : BOTTOM
9. Check that the CENTER DET. signal is correct.
   Pin 17 of K8E Center position=The edge of "H to L" or "L to H."
10. Check that the LEFT DET. signal is correct.
    Pin 9 of K8N L : LEFT
11. Check that the RIGHT DET. signal is correct.
    Pin 10 of K8N L : RIGHT
12. Check that the CENTER DET. signal is correct.
    Pin 11 of K8N Center position=The edge of "H to L" or "L to H."

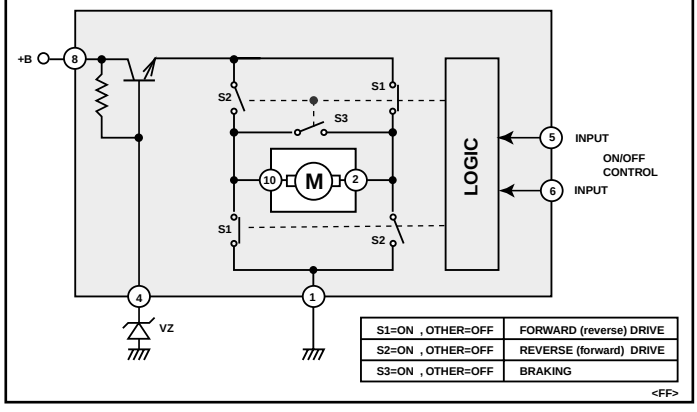
■ Assembly Motor audio

1. Check that the Vcc-voltages are correct.
2. Check that the POWER FAIL signal is correct.
   Pin14 of K16A. H: Normal
3. Check that the LENS SHIFT up and down signals are correct.
   Pins 5 and 6 of IC1631.
4. Check that the LENS SHIFT left and right signals are correct.
   Pins 5 and 6 of IC1621.
5. Check that the FOCUS up and down signals are correct.
   Pins 5 and 6 of IC1611.
6. Check that the ZOOM up and down signals are correct.
   Pins 5 and 6 of IC1601.
7. Check that the LENS SHIFT motor drive signals are correct.
   Pins 10 and 2 of IC1631 and IC1621.
8. Check that the FOCUS motor drive signals are correct.
   Pins 10 and 2 of IC1611.
9. Check that the ZOOM motor drive signals are correct.
   Pins 10 and 2 of IC1601.

■ **Any of the projector models are not equipped with the Horizontal shift function. See "Motorized Lens Shift " of specifications on page-2.**
■ **Any of the projection lenses are not equipped with the motor driven Zoom/Focus system. See "Available lens" of appendix on page-106.**

Motor driving IC block diagram

LB1641/1645N



Truth table IC1601/IC1611/IC1621/IC1631

Input		Output		Operation
5	6	2	10	
H	L	H	L	Forward(reverse) drive
L	H	L	H	Reverse(forward) drive
L	L	L	L	Braking

TEMPERATURE ABNORMALITY -1

System Control

Note : Temperature monitor operation

The temperature monitor system protects optical components (LCD panel, Polarization film, etc.) from the unusual overheat inside a projector. This system is composed of two protection equipment. Each system operation as follows ;

The temperature monitor -1;

■ **The CPU controls Air flow.**

The CPU checks the temperature by using the temperature sensor-IC5801 and the atmospheric pressure by using pressure sensor-IC886, inside a projector. The CPU judges data from sensors and controls the air flow of the cooling fans so that the temperature inside the projector may be maintained to normal temperature.

■ **The CPU shuts down the projector compulsorily.**

The CPU checks the temperatures by using the temperature sensors IC2561 (near the Red LCD panel) and IC5801(inhalation air). If each part temperature reaches to abnormal temperature(IC2561 ; 47degrees / IC5801 ; 42degrees), the CPU will shut down the projector, and will blink TEMPERATURE WARNING indicator at intervals of 0.6 seconds. The cooling fans operate until the temperature returns to normal. When the temperature returns to normal, the indicator stops blinking. Then trace the cause of an unusual temperature. And repair the projector. (Refer to the item of "temperature abnormality" of troubleshooting.)

D7/E7

The temperature monitor -2 ;

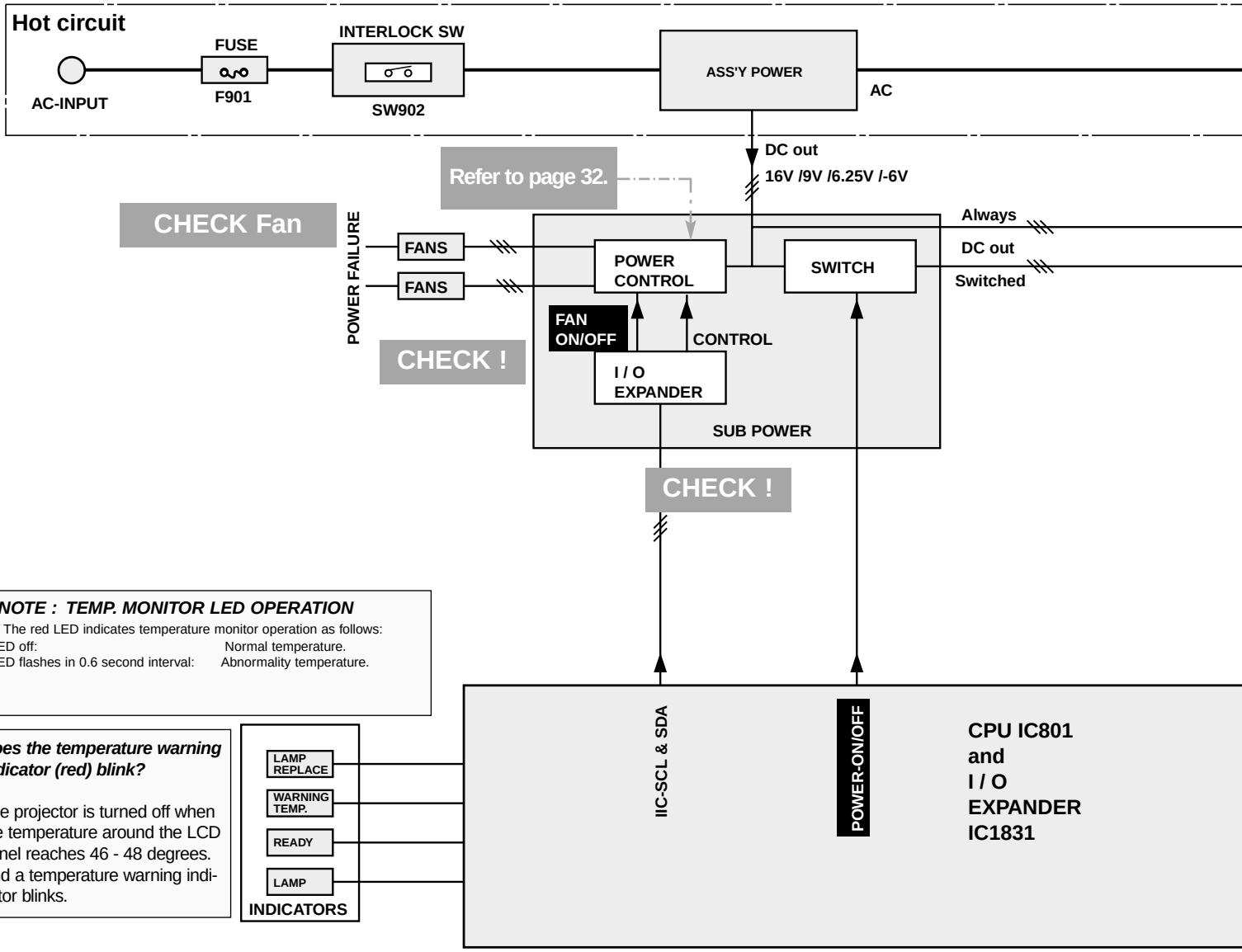
■ **The temperature switches shut down the projector compulsorily.**

Temperature switches (SW903/904) are arranged near the two lamps. If a temperature of lamp reaches an unusual temperature, the temperature switch will operate. The lamp ballast units shut down, then the projector is turned off when the temperature switches operate.

■ **Note :**

(1) If other protection equipment (The function of signal check of "Power failure", The temperature monitor-1, etc.) are rightly operating, the lamp does not become an unusual temperature. So, the temperature monitor-2 rarely operates. However, when those protection equipment do not operate with fault, this temperature monitor-2 operates and covers the broken protection equipment. If this temperature monitor-2 operates, it is thought fault of other protection equipment. Trace the fault of other protection equipment and the causes of an unusual temperature. (Refer to the item of "temperature abnormality" of troubleshooting.)

(2) The CPU does not check the operation of temperature switches (SW903/904). Therefore, the TEMPERATURE WARNING indicator does not blink when the temperature switch (SW903 or 904) operates and the projector is shut down.



***NOTE : TEMP. MONITOR LED OPERATION**

■ The red LED indicates temperature monitor operation as follows:

LED off: Normal temperature.

LED flashes in 0.6 second interval: Abnormality temperature.

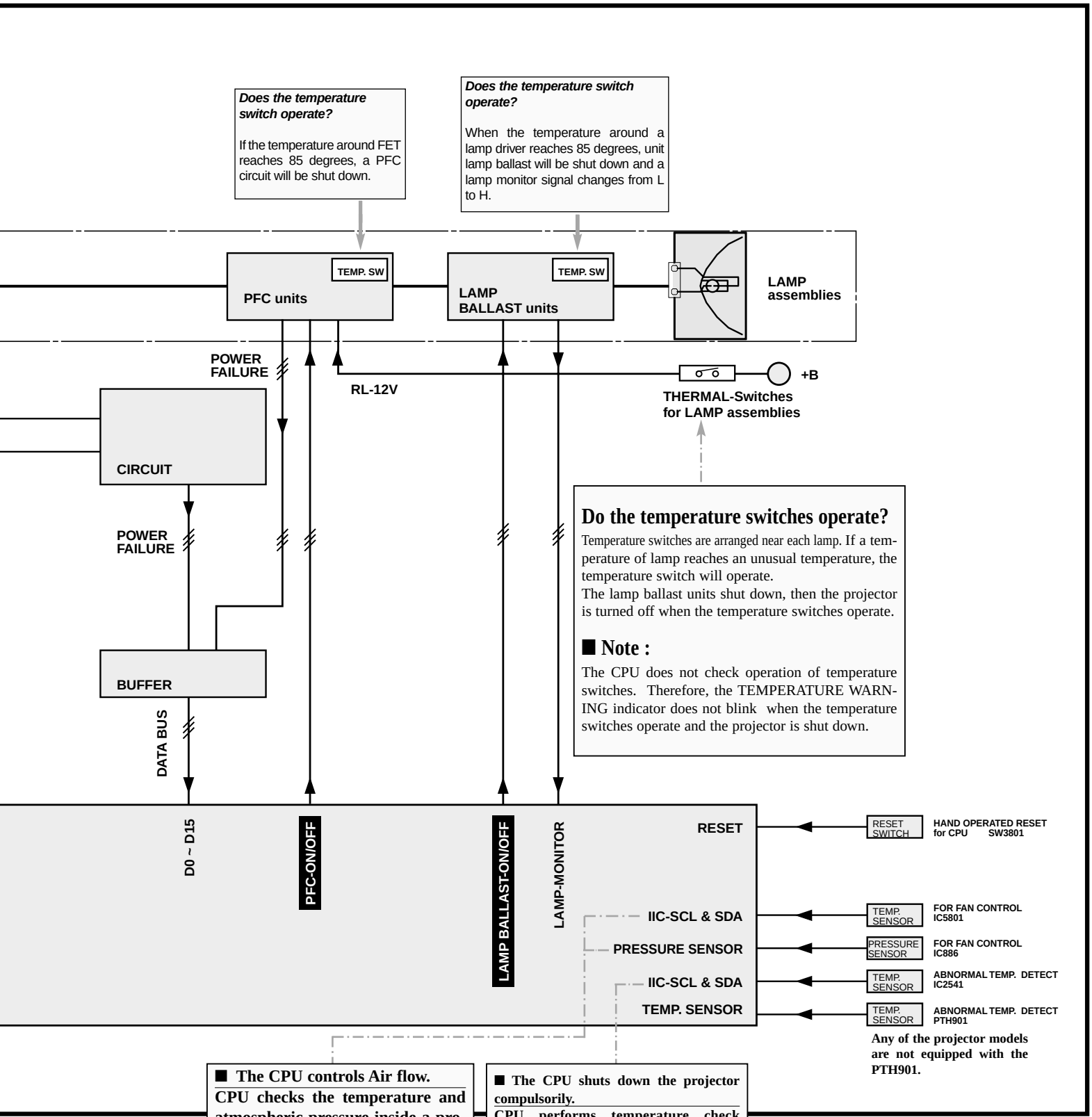
Does the temperature warning indicator (red) blink?

The projector is turned off when the temperature around the LCD panel reaches 46 - 48 degrees. And a temperature warning indicator blinks.

***NOTE : CPU OPERATION**

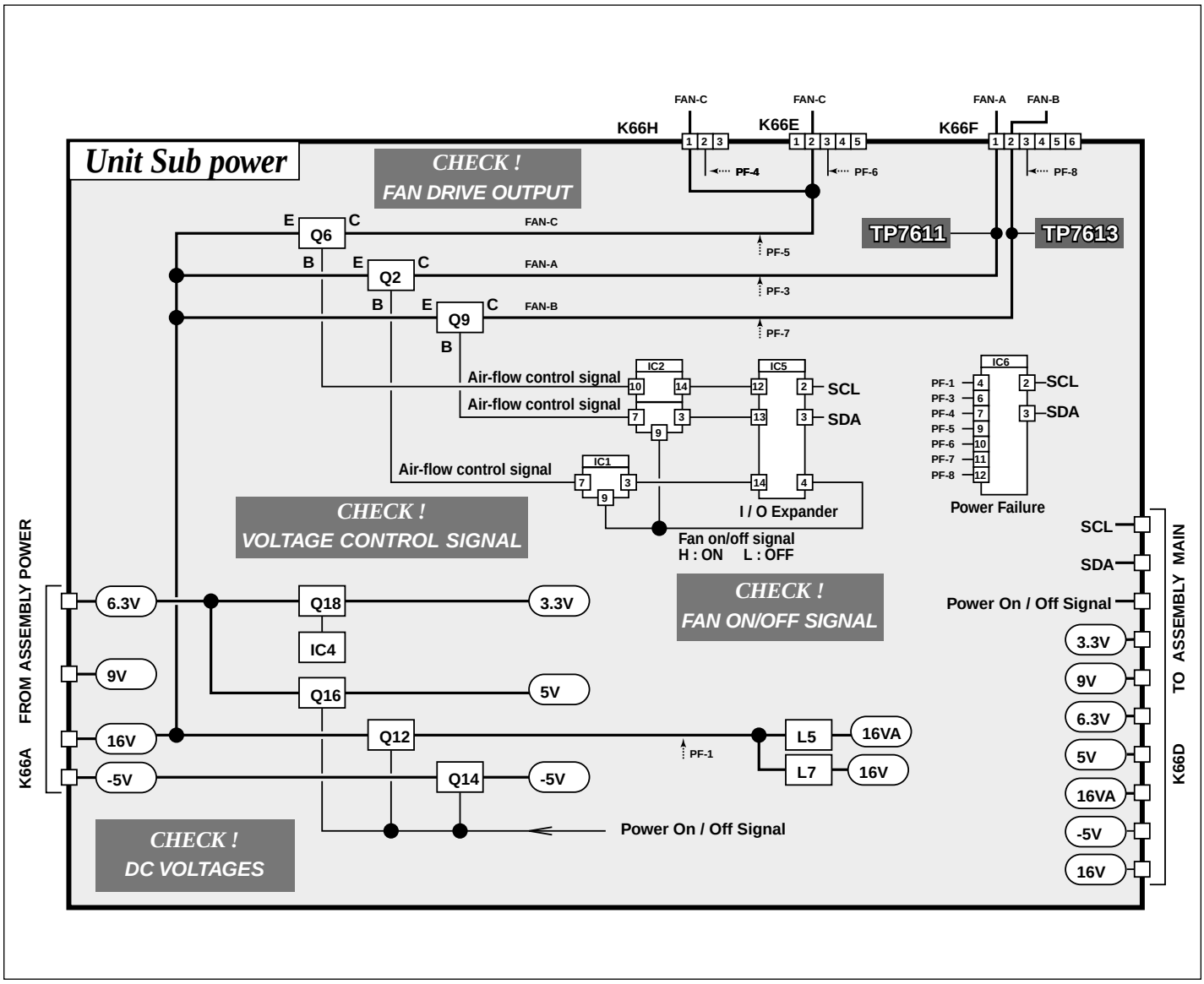
■ CPU (IC801) performs an input check by the IIC-SDA signal pin.

■ When it has detected abnormal condition, CPU turns off the projector compulsorily. Cooling fans operate until temperature returns to normal. Moreover, a projector cannot be turned on during this period.


Does the temperature switch operate?
If the temperature around FET reaches 85 degrees, a PFC circuit will be shut down.
Does the temperature switch operate?
When the temperature around a lamp driver reaches 85 degrees, unit lamp ballast will be shut down and a lamp monitor signal changes from L to H.
TEMP. SW
PFC units
TEMP. SW
LAMP BALLAST units
LAMP assemblies
POWER FAILURE
RL-12V
+B
THERMAL-Switches for LAMP assemblies
CIRCUIT
POWER FAILURE
BUFFER
DATA BUS
Do the temperature switches operate?
Temperature switches are arranged near each lamp. If a temperature of lamp reaches an unusual temperature, the temperature switch will operate.
The lamp ballast units shut down, then the projector is turned off when the temperature switches operate.
■ Note :
The CPU does not check operation of temperature switches. Therefore, the TEMPERATURE WARNING indicator does not blink when the temperature switches operate and the projector is shut down.
D0 ~ D15
PFC-ON/OFF
LAMP BALLAST-ON/OFF
LAMP-MONITOR
RESET
IIC-SCL & SDA
PRESSURE SENSOR
IIC-SCL & SDA
TEMP. SENSOR
RESET SWITCH
HAND OPERATED RESET for CPU SW3801
TEMP. SENSOR
FOR FAN CONTROL IC5801
PRESSURE SENSOR
FOR FAN CONTROL IC886
TEMP. SENSOR
ABNORMAL TEMP. DETECT IC2541
TEMP. SENSOR
ABNORMAL TEMP. DETECT PTH901
Any of the projector models are not equipped with the PTH901.
■ The CPU controls Air flow.
CPU checks the temperature and atmospheric pressure inside a projector. And CPU controls the drive power of the cooling fans so that the temperature inside the projector may be maintained to normal temperature.
■ The CPU shuts down the projector compulsorily.
CPU performs temperature check around the LCD panel using temperature sensor IC2561 (B-side of assembly main). If this temperature reaches 47 degrees, CPU will turn off a projector, and will blink TEMPERATURE WARNING indicator at intervals of 0.6 seconds.

Temperature sensors location can be seen "protections" on page 5.

Check the DC Voltages and Air-flow control circuit



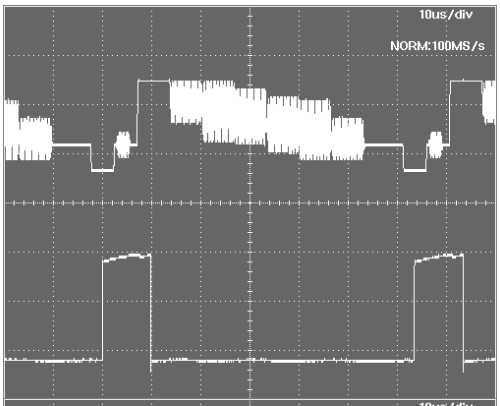
Waveforms

Timing chart

10us/Div

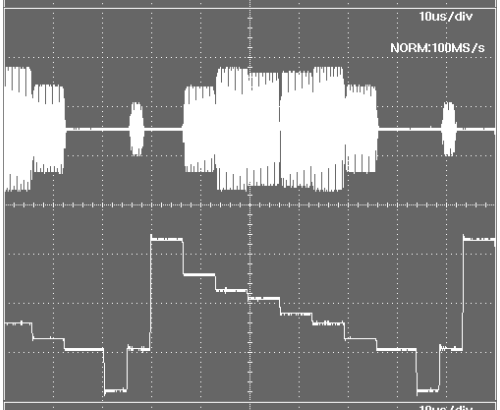
Terminal board-AV Video-in

NTSC
0.5V/Div



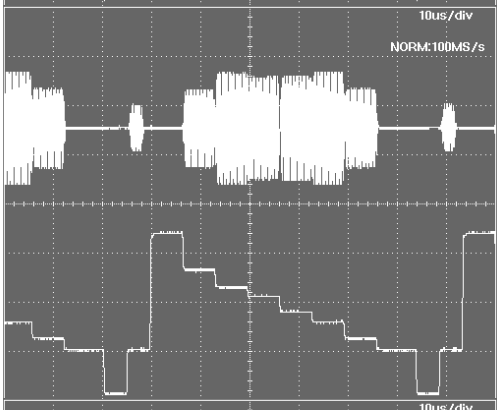
TP_32H1
H_sync 2V/Div

TP_5101
C 0.5V/Div



TP_5102
Y 0.5V/Div

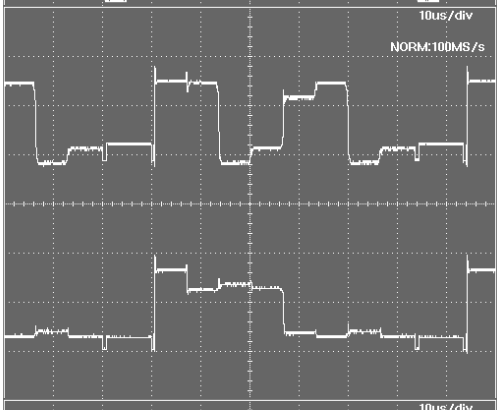
TP_3141
C 0.5V/Div



TP_3142
Y 0.5V/Div

TP_5181
Red 0.5V/Div

TP_201
0.5V/Div

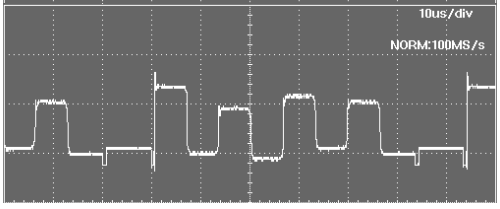


TP_5182
Green 0.5V/Div

TP_211
0.5V/Div

TP_5183
Blue 0.5V/Div

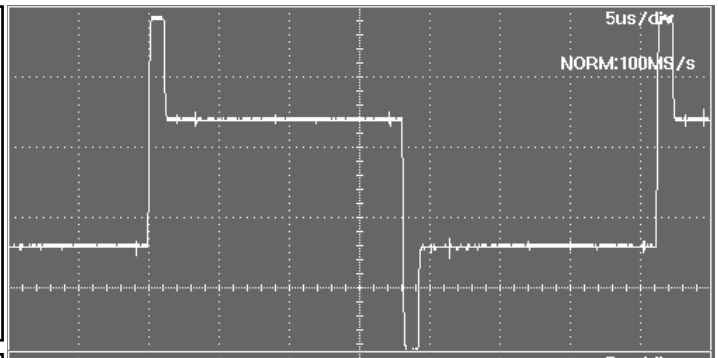
TP_221
0.5V/Div



Timing chart

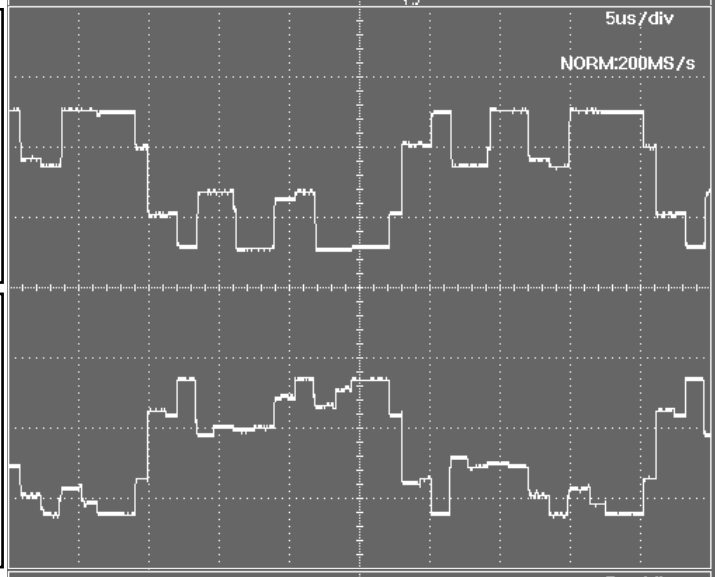
5us/Div

TP_NRS
NRS



Red LCD panel drive signal

TP561
5V/Div

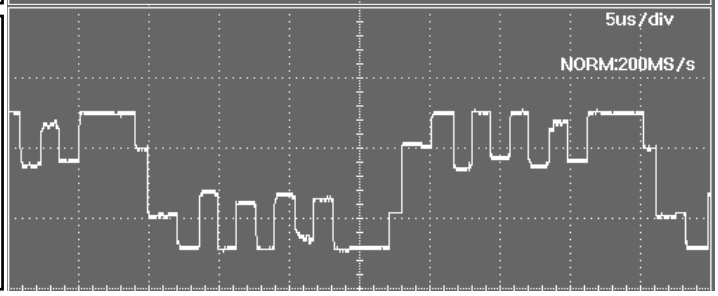


Green LCD panel drive signal

TP_531
G 5V/Div

Blue LCD panel drive signal

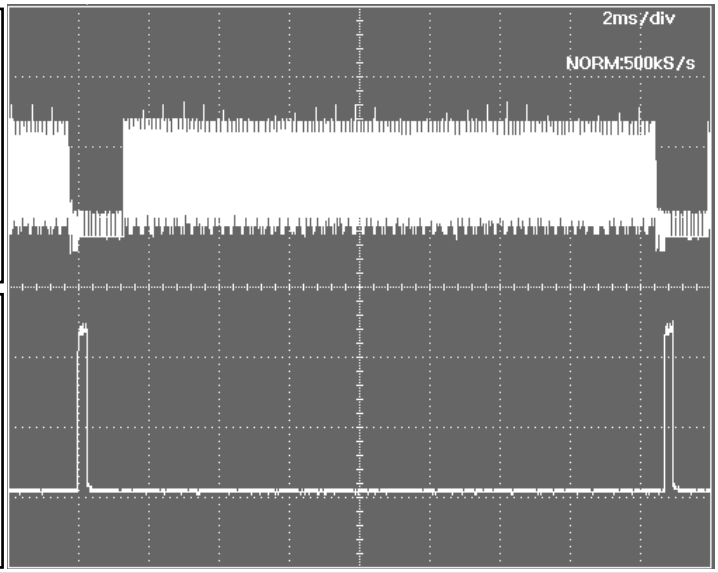
TP501
5V/Div



2ms/Div

Input_signal
NTSC 0.5V/Div

TP_32V1
V_sync 5V/Div



■ Abot the Readjustments after Parts Replacement :

After replacing electric parts and optical parts, to readjust some of the adjustment items electric and optical are required. Refer to the **"Readjustments After Parts Replacement"** on page **68**.)

■ 1. Mode of "SERVICE ADJUSTMENT"

The mode of "SERVICE ADJUSTMENT" is tool for electrical adjustment and setting of the projector. For adjustment item, refer to Menu in the mode of "SERVICE ADJUSTMENT" on pages 36-37. For adjustment and setting in the mode of "SERVICE ADJUSTMENT", use the (*)Control Buttons on the Projector top.

(*)Control buttons:
MENU / IMAGE / POINT LEFT (<) and RIGHT (>) / POINT UP (▲) and DOWN (▼) / POWER.

Procedure of electrical adjustment and setting.

1. To enter the mode of "SERVICE ADJUSTMENT".

Press and hold the MENU and IMAGE buttons on the projector simultaneously for more than 2 seconds. The picture in the mode of "SERVICE ADJUSTMENT" appears on the screen.

2. To select adjustment group number and item number which are to be adjusted or set.

The group number can be selected by pressing MENU or IMAGE buttons. The item number can be selected by pressing POINT UP (▲) or DOWN (▼) buttons.

Note: Control buttons:

Group number is increased by " MENU " button.
Group number is decreased by " IMAGE " button.
Item number is increased by " POINT UP " button.
Item number is decreased. by " POINT DOWN " button

3. Adjustment and setting.

The data value can be adjusted or set by pressing point LEFT (<) or RIGHT (>) buttons.

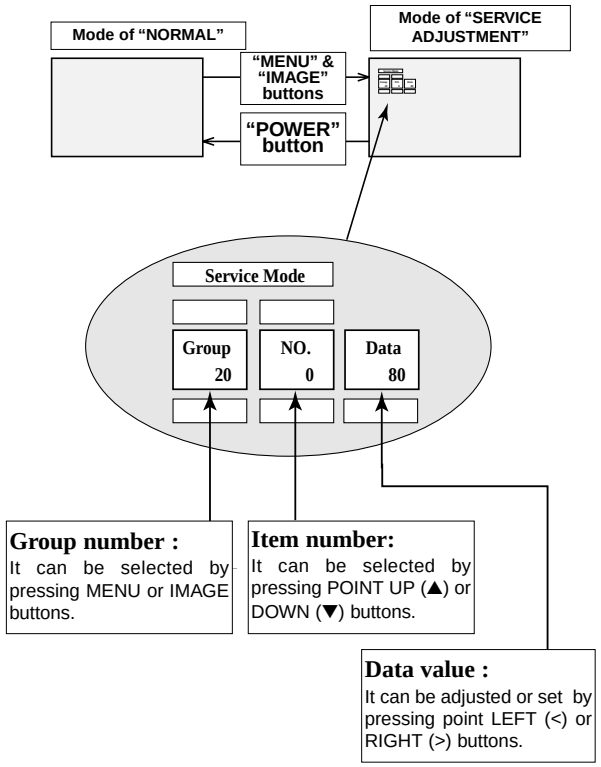
Note: Control buttons:

Data value is increased by **"** POINT RIGHT **"** button.
Data value is decreased by **"** POINT LEFT **"** button.

4. To quit the mode of "SERVICE ADJUSTMENT".

Press POWER button once and return to the mode of "NORMAL" from the mode of "SERVICE ADJUSTMENT".

Picture in the mode of "SERVICE ADJUSTMENT"


Mode of "NORMAL"
Mode of "SERVICE ADJUSTMENT"
"MENU" & "IMAGE" buttons
"POWER" button
Service Mode
Group 20
NO. 0
Data 80
Group number :
It can be selected by pressing MENU or IMAGE buttons.
Item number:
It can be selected by pressing POINT UP (▲) or DOWN (▼) buttons.
Data value :
It can be adjusted or set by pressing point LEFT (<) or RIGHT (>) buttons.

Control buttons: (On the Projector top)
MENU / IMAGE / POINT LEFT (<) and RIGHT (>) / POINT UP (▲) and DOWN (▼) / POWER.

Menu in the mode of “SERVICE ADJUSTMENT”

Group & Item No.	Adjustment Item	Input Mode			
		Not designated	PC	AV	Component
140-0	Fans-A driving voltage adjustment	●			
140-1	Fans-A driving voltage adjustment	●			
140-2	Fans-C driving voltage adjustment	●			
140-3	Fans-C driving voltage adjustment	●			
140-4	Fans-B driving voltage adjustment	●			
140-5	Fans-B driving voltage adjustment	●			
140-6	Fans-D driving voltage adjustment	●			
140-7	Fans-D driving voltage adjustment	●			
200-0	Video center DC-2 adjustment		●		
200-1	Video center DC-1 adjustment		●		
200-2	NRS signal adjustment (DC level)		●		
200-3	NRS signal adjustment (p - p)		●		
200-4	Green Contrast adjustment-PC		●		
200-5	Red Contrast adjustment-PC		●		
200-6	Blue Contrast adjustment-PC		●		
200-7	Green panel driving signal adjustment -PC		●		
200-8	Blue panel driving signal adjustment -PC		●		
200-9	Red panel driving signal adjustment -PC		●		
200-10	Intensity of illumination adjustment-PC		●		
200-13	Flicker reduction--Green		●		
200-14	Flicker reduction--Red		●		
200-15	Flicker reduction--Blue		●		
210-4	Green Contrast adjustment-AV			●	
210-5	Red Contrast adjustment-AV			●	
210-6	Blue Contrast adjustment-AV			●	
210-7	Green panel driving signal adjustment -AV			●	
210-8	blue panel driving signal adjustment -AV			●	
210-9	Red panel driving signal adjustment -AV			●	
210-10	Intensity of illumination adjustment-AV			●	

Group & Item No.	Adjustment Item	Input Mode			
		Not designated	PC	AV	Component
200-11 & 12	PC White balance adjustment. 2 lamp mode		●		
210-11 & 12	AV White balance adjustment. 2 lamp mode			●	
211-11 & 12	AV White balance adjustment. Lamp-1 of 1 lamp mode			●	
212-11 & 12	AV White balance adjustment. Lamp-2 of 1 lamp mode			●	
1000-25	AV Color adjustment			●	
1000-24	AV Tint adjustment			●	
1010-0	AV Green Video signal adjustment			●	
1010-1	AV Green Video signal adjustment			●	
1010-2	AV Red Video signal adjustment			●	
1010-3	AV Red Video signal adjustment			●	
1010-4	AV Blue Video signal adjustment			●	
1010-5	AV Blue Video signal adjustment			●	
0-0	Temperature monitor IC5801 Read only	●			
0-1	Temperature monitor IC2561 Read only	●			
1-0	Atmospheric Pressure monitor IC886 Read only	●			
10-0	RS232C Baud rate (0:9600 / 1:19200)	●			
10-1	RS232C RTS/CTS Flow Control (0:Disable / 1:Enable)	●			
111-0	Lamp-1 Lamp illumination time Read only	●			
111-1	Lamp-2 Lamp illumination time Read only	●			
930-0	Lamp mode 2 (Full) Lamp Mode (See Note.)	●			
930-1	Lamp mode Lamp-1 of 1 Lamp Mode (See Note.)	●			
930-2	Lamp mode Lamp-2 of 1 Lamp Mode (See Note.)	●			
998-0	Grid Test Pattern Display	●			

Note : Group-no. 930

- If the data value appears "11" on the screen, the lamp mode is selected.
- If the data value appears "0" on the screen, the lamp mode is not selected. Set the data value to "10."
- If the data value appears "99" on the screen, it is period for cooling of the lamp. Wait until it is changed to "0." Then set the data value to "10."

Caution :

Other adjustment items are not related to service and a maintenance. Don't change the data values of those adjustment items. Otherwise it may cause loss of product safety.

■ 2. Electrical adjustments

Note :

■ The following adjustment is the adjustment item for Assembly power. The test point exists on the Assembly power.

1. Voltage adjustment.

■ The following adjustments are the adjustment item for Terminal board-AV. The adjustment data is stored to Terminal board-AV (IC2143). The test points exist on the Terminal board-AV and the Assembly main.

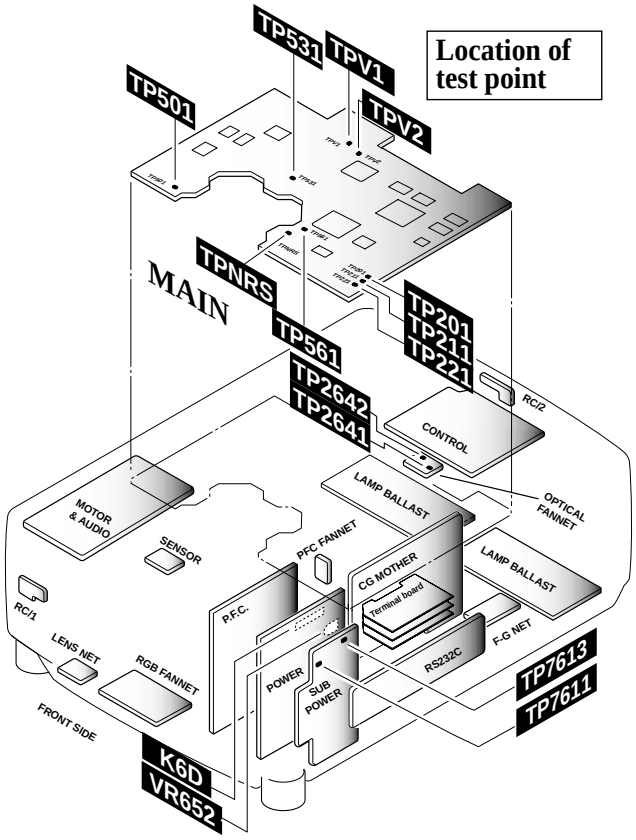
2. AV Video signal adjustments.
3. 3DNR-PLL Lock check.
4. AV Color and Tint adjustments.

■ The following adjustment is the adjustment item for Assembly sub power. But the adjustment data is stored to Assembly main (IC1811 and IC871). The test points exist on the Assembly optical fan-net and the Assembly sub-power.

5. Fans driving voltage adjustments.

■ The following adjustments are the adjustment item for Assembly main. The adjustment data is stored to Assembly main (IC1811 and IC871). The test points exist on the Assembly main.

6. Video center DC adjustments.
7. NRS signal adjustments.
8. PC contrast adjustments.
9. AV contrast adjustments.
10. Panel driving signal adjustments -AV.
11. Panel driving signal adjustments -PC.
12. Flicker reduction.
13. White balance adjustments.
14. Unevenness color correction.



1. Voltage adjustment

Equipment Digital voltmeter
Probe + K6D(2)
- chassis ground

Adjustment:
Adjust the voltage of K6D to **6.35± 0.05V DC** with the VR652.

2. AV Video signal adjustments

Equipment Oscilloscope
Input mode AV
Input signal 16 step gray scale signal
Picture condition Normal

Adjustment :
Enter the mode of "service adjustment". **(Refer to "service adjustment" on page 35.)**

■ 2-1. AV Green Video adjustment
Probe : + TP211 or TP5182 / - chassis ground.
Adjust each following item.

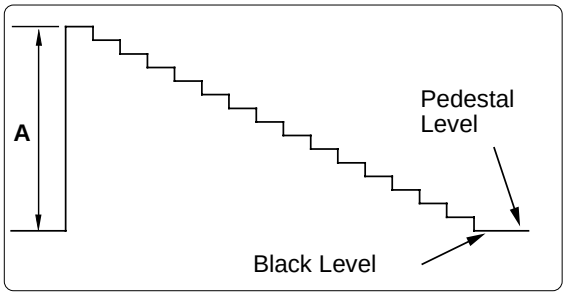
Group	Item	Adjustment part.	Adjustment or adjustment value.
1010-	0	Amplitude of part A	0.7± 0.05Vp-p
1010-	1	DC level between pedestal and black	Same DC level

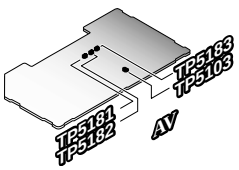
■ 2-2. AV Red Video adjustment
Probe : + TP201 or TP5181 / - chassis ground.
Adjust each following item.

Group	Item	Adjustment part.	Adjustment or adjustment value.
1010-	2	Amplitude of part A	0.7± 0.05Vp-p
1010-	3	DC level between pedestal and black	Same DC level

■ 2-3. AV Blue Video adjustment
Probe : + TP221 or TP5183 / - chassis ground.
Adjust each following item.

Group	Item	Adjustment part.	Adjustment or adjustment value.
1010-	4	Amplitude of part A	0.7± 0.05Vp-p
1010-	5	DC level between pedestal and black	Same DC level.





3. The voltage check of the 3D-Noise-reduction-PLL circuit.

Equipment	Digital voltmeter
Probe :	+ TP5103/ - chassis ground.
Input mode	AV
Input signal	Color bar signal(PAL)
Picture condition	Normal

Check :

Check that the voltage of the TP5103 is correct. The voltage of the TP5103 is outputted between **2.85 V and 2.95 VDC**. If the voltage of the TP5103 is not correctly, check the periphery of the 3D-Noise-reduction-PLL circuit and repair it.

4. AV Color and Tint adjustments

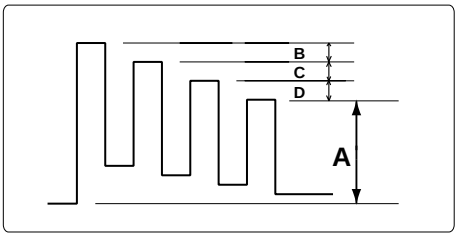
Equipment	Oscilloscope.
Input mode	AV.
Input signal	Color bar signal(NTSC)
Picture condition	Normal.
Probe	+ TP221 or TP5183
	- chassis ground.

Adjustment :

Enter the mode of “service adjustment”.

Adjust each following item.

Group	Item	Adjustment part.	Adjustment or adjustment value.
1000-	25	Amplitude of part A	0.45± 0.02Vp-p
1000-	24	Parts B, C and D	Same width



5. Fan driving voltage adjustments

Equipment Digital voltmeter.

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item.

Group	Item	Probe	Adjustment or adjustment value.
140-	0	TP7611 (Fan-A)	9.0± 0.1VDC
140-	1	TP7611 (Fan-A)	14.0± 0.1VDC
140-	2	TP2641 (Fan-C)	9.0± 0.1VDC
140-	3	TP2641 (Fan-C)	13.5± 0.1VDC
140-	4	TP7613 (Fan-B)	9.5± 0.1VDC
140-	5	TP7613 (Fan-B)	14.0± 0.1VDC
140-	6	TP2642 (Fan-D)	9.0± 0.1VDC
140-	7	TP2642 (Fan-D)	13.5± 0.1VDC

6. Video center DC adjustments

Equipment Digital voltmeter.
Input mode Computer.
Input signal 16 step gray scale signal.

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item.

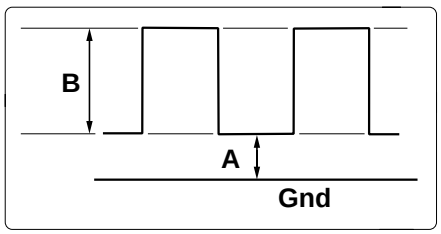
Group	Item	Probe	Adjustment or adjustment value.
200-	0	TPV2 (video center-2)	8.0 ± 0.1VDC
200-	1	TPV1 (video center-1)	7.0 ± 0.1VDC

7. NRS signal adjustments

Equipment Oscilloscope.
Input mode Computer.
Input signal 16 step gray scale signal

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item.

Group	Item	Probe	Adjustment part.	Adjustment or adjustment value.
200-	2	TPNRS	DC Level A	2.0 ± 0.1Vdc
200-	3	TPNRS	Amplitude of part B	7.5 ± 0.1Vp-p

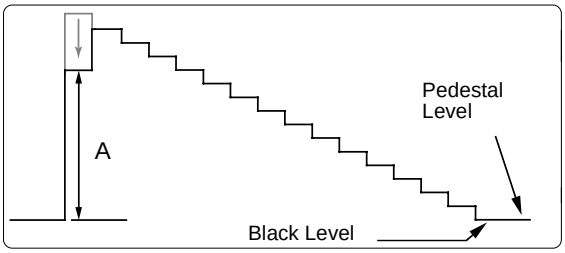


8. Contrast adjustments-PC

Equipment Oscilloscope.
Input mode Computer.
Input signal 16 step gray scale signal

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item so that the amplitude of part A may be minimum amplitude.

Group	Item	Probe
200-	4	TP531 (Green contrast adjustment)
200-	5	TP561 (Red contrast adjustment)
200-	6	TP501 (Blue contrast adjustment)

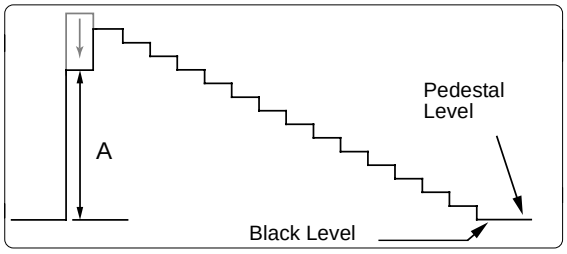


9. Contrast adjustments-AV

Equipment Oscilloscope.
Input mode AV.
Input signal 16 step gray scale signal

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item so that the amplitude of part A may be minimum amplitude.

Group	Item	Probe
210-	4	TP531 (Green contrast adjustment)
210-	5	TP561 (Red contrast adjustment)
210-	6	TP501 (Blue contrast adjustment)

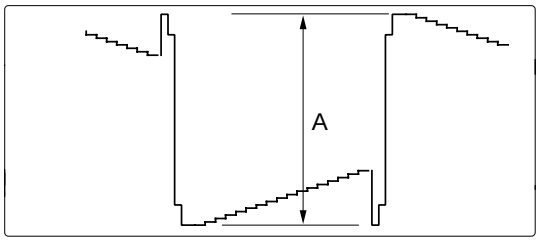


10. Panel driving signal adjustments -AV

Equipment Oscilloscope.
Input mode AV.
Input signal 16 step gray scale signal
Picture condition Normal.

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item.

Group	Item	Probe	Adjustment part.	Adjustment or adjustment value.
210-	7	TP531	Amplitude of part A	10.5 ± 0.05Vp-p
210-	8	TP561	Amplitude of part A	10.5 ± 0.05Vp-p
210-	9	TP501	Amplitude of part A	10.5 ± 0.05Vp-p

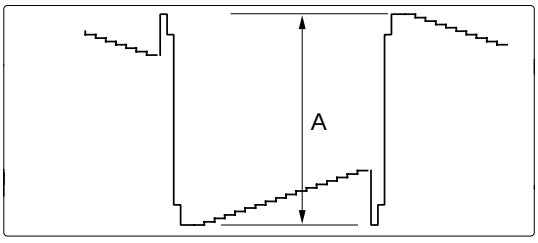


11. Panel driving signal adjustments -PC

Equipment Oscilloscope.
Input mode Computer
Input signal 16 step gray scale signal

Adjustment :
Enter the mode of “service adjustment”.
Adjust each following item.

Group	Item	Probe	Adjustment part.	Adjustment or adjustment value.
200-	7	TP531	Amplitude of part A	10.5± 0.05Vp-p
200-	8	TP561	Amplitude of part A	10.5 ± 0.05Vp-p
200-	9	TP501	Amplitude of part A	10.5 ± 0.05Vp-p



12. Flicker reduction

***** When the **LCD-panel** or **LCD Panel/Prism assembly** is replaced, to disappear or reduce the flicker is needed.

Input mode Computer.
Input signal 1 dot line computer signal

Adjustment :
Enter the mode of "service adjustment".
Adjust each following item so that the flicker may disappear or reduce.

Group	Item	Screen
200-	13	Display only green light.
200-	14	Display only red light.
200-	15	Display only blue light.

13. White balance adjustments

***** When the **LCD-panel** or **LCD Panel/Prism assembly** is replaced, to adjust the white balance is needed.

■ Before white balance adjustment:

Illumination photometry and adjustment.

Equipment : Illuminometer (Luxmeter)
Input signal : White signal (100% and 50%)

Enter the mode of "service adjustment".

Group	Item	Input signal	Input mode	Action		
200-	10	100% white signal	Computer	Measure :	A (lx)	See note-1.
200-	10	50% white signal	Computer	Adjust :	B (lx)	See note-2.
210-	10	100% white signal	AV	Measure :	A (lx)	See note-1.
210-	10	50% white signal	AV	Adjust :	B (lx)	See note-2.

Note-1 :
Measure the intensity of illumination(**A** Lux) on illuminated screen by 100% white signal with the illuminometer. This reading value is **A** lux.
Note-2 :
Adjust the intensity of illumination on illuminated screen by 50% white signal to make the reading of illuminometer to be **B** lux by using POINT LEFT (<) or RIGHT (>) buttons. **[B = A × 0.22 Lux (22%)]**

■ White balance adjustments:

Input signal : 50% White signal
Enter the mode of "service adjustment".

Group	Item	Lamp mode	Input mode	Action
930-	0			Set 2 lamp mode : See note-1
210-	11 and 12	Lamp-1 & 2	AV	Adjust white balance : See note-2
200-	11 and 12	Lamp-1 & 2	Computer	Adjust white balance : See note-2
930-	1			Set 1 lamp mode : See note-1
211-	11 and 12	Lamp-1	AV	Adjust white balance : See note-2
930-	2			Set 1 lamp mode : See note-1
212-	11 and 12	Lamp-2	AV	Adjust white balance : See note-2

Note-1 :
If the data value appears "**11**" then go to (**a**), or appears "**0**" then go to (**b**), or appears "**10**" then go to (**c**).
(a) Go to next adjustment item.
(b) Set the data value to "**10**" and go to next adjustment item.
(c) Wait until it is changed to "**0**". Then set the data value to "**10**" and go to next adjustment item.
Note-2 :
Adjust the white balance so that the image may obtain proper white, then go to next item.

14. Unevenness color correction

***** If you find the **uneven color** on the screen, please correct it.
***** When the **LCD-panel** or **LCD Panel/Prism assembly** is replaced, to correct the uneven color is needed.
***** When the **assembly Main** is replaced, see item of the assembly main on page 68.

To correct the uneven color, the proper computer and **"Unevenness Color Correction"** software supplied separately are needed. The software for correction is recorded in the CD-ROM and it can be ordered. To opreate the "Unevenness Color Correction" software, refer to Instruction Manual for details of this software and its operation. This Instruction Manual is also contained in the CD-ROM.

The CD-ROM version of unevenness color correction software and instruction manual can be ordered as follows.

CD-ROM version: Unevenness Color Correction
Software and Instruction Manual

Service part NO. : 645 066 7428
Service part name : CD-ROM C-SHADE COR. -MF7A

NOTE

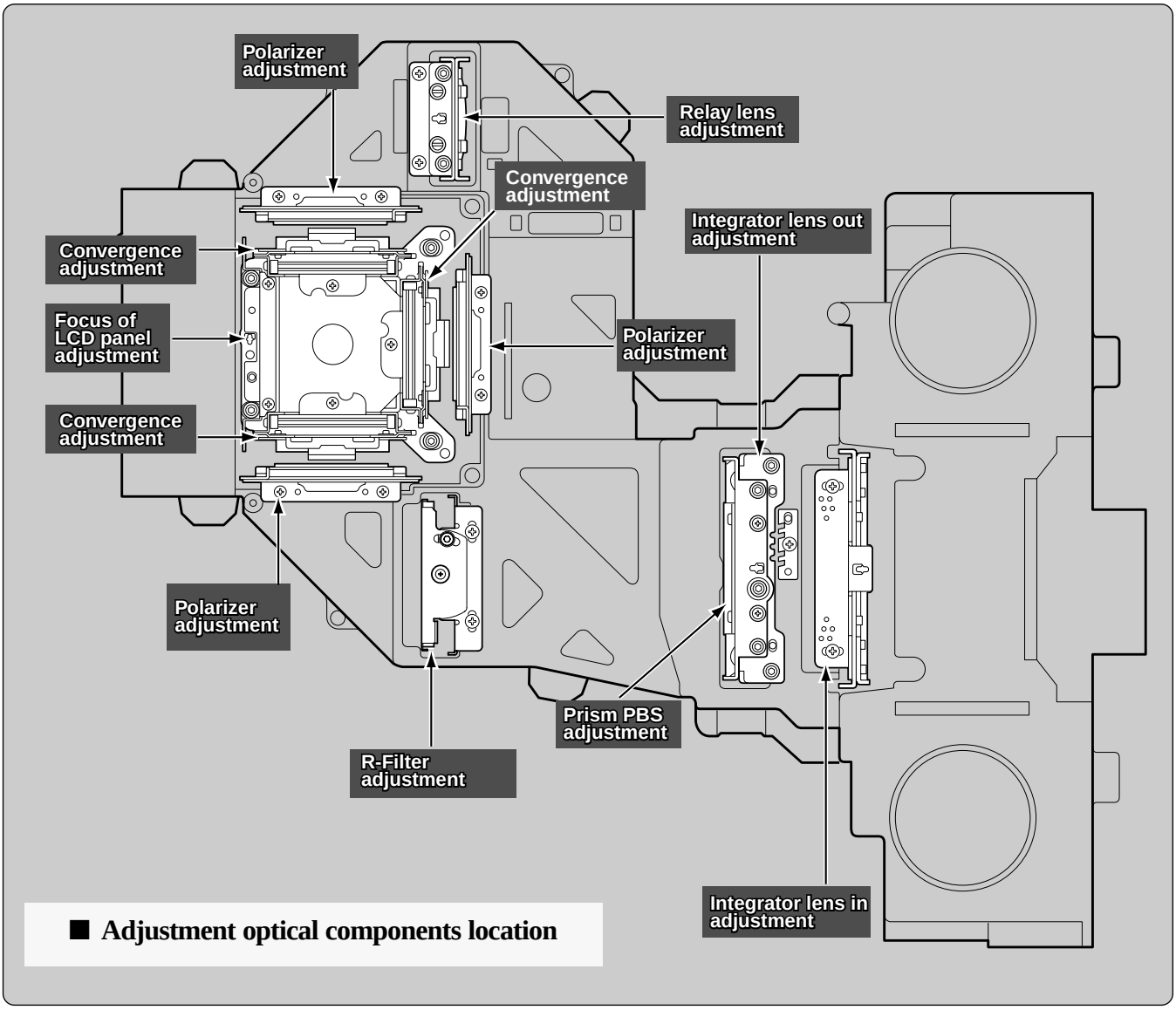
■ When the assembly main is replaced :

When the assembly main is replaced with new one, to replace the Memory ICs or to readjust some of the adjustment items is needed, see item of the "assembly main" on page 68.

■ When the LCD panel /Prism assembly or LCD-panel is replaced :

When the **LCD panel /Prism assembly** or **LCD-panel** is replaced with new one, to readjust some of the adjustment items electric and optical is needed, see item of the "LCD panel /Prism assembly or LCD-panel" on page 68.

■ 3. Optical components adjustments



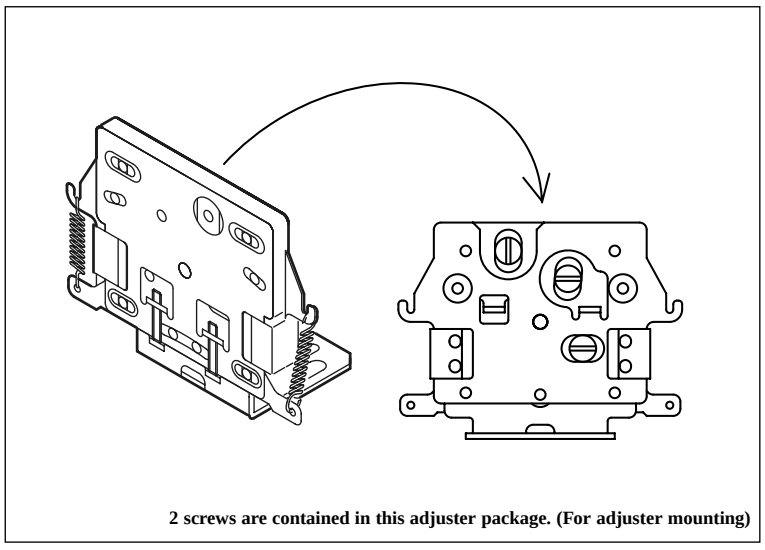
■ **Adjustment optical components location**

Adjustment item

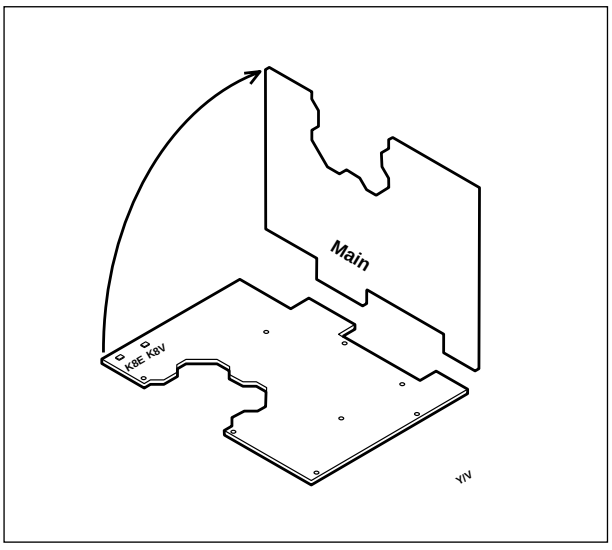
- ■ Focus adjustment of LCD Panel
- ■ LCD Panel convergence adjustment.
- ■ Integrator-lens-out adjustment
- ■ Integrator-lens-in adjustment
- ■ R-Filter adjustment
- ■ Relay-lens adjustment
- ■ Prism P.B.S. adjustment
- ■ Polarizer adjustment

Before Adjustment for optical components.

1. Each adjustment requires a set of ball allen wrenches and slot screwdrivers. Moreover, convergence adjustment requires convergence adjustment tool " Convergence Adjuster ". The convergence adjustment tool can be ordered. See following figure.
2. Set the position of projection lens to the center position with Lens Shift Button on Top Control or Remote Control Unit. (Refer to " lens shift adjustment " on owner's manual.)
3. The mode of "service adjustment" is equipped with the image of test pattern. Use it, when you adjust the focus and convergence of the LCD Panel.
   a) Enter the mode of "service adjustment". Refer to page **35**.
   b) Select Group number " **998** ".
   c) Select Item number " **0** ".
   d) Press the POINT LEFT (<) or RIGHT (>) buttons, and each color grid pattern is displayed.
   e) Press power button once to quit the mode of "service adjustment".
4. Follow the following procedure when you adjust the lenses Relay and R-filter.
   a) Remove the connectors K8E, K8V and the flexible cables of the LCD panels from the assembly Main. (Note : Don't touch the electrodes on flexible cables.)
   b) As shown in a figure, Set the assembly Main to the upright position. (Note : Don't short-circuit assembly Main with the chassis. Protect assembly Main using an insulator.)



2 screws are contained in this adjuster package. (For adjuster mounting)



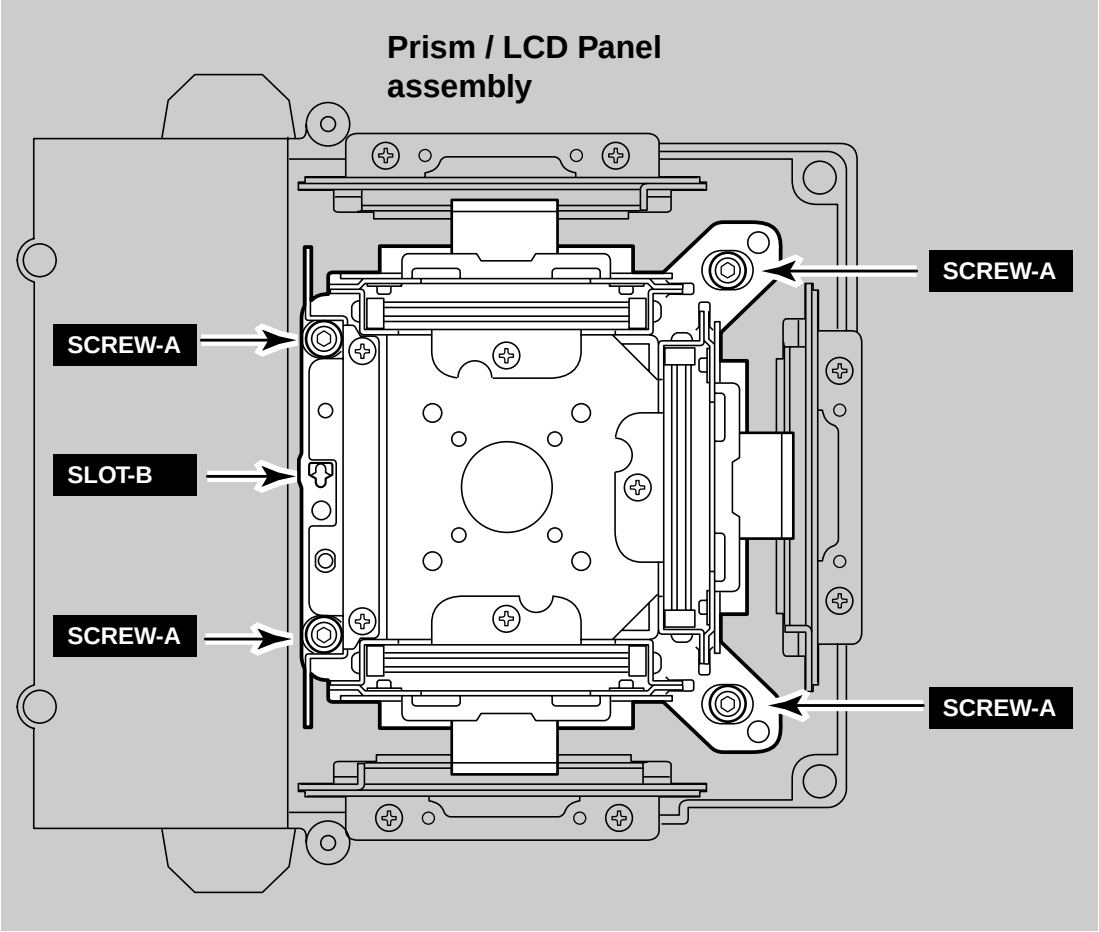
Convergence Adjuster :

The convergence adjustment tool can be ordered as follows.

Service part NO. : 610 304 8208

Service part name : ASSY CG ADJUST LCD-MT8A

Focus adjustment of LCD Panel



Before Adjustment :

1. Turn on a projector.
2. Enter the mode of "service adjustment" and project a green grid pattern on a screen. (Refer to the item 3 of "before adjustment " on page 44.) And take the focus of green grid pattern, pressing the Focus(▲)(▼) buttons on the projector or remote control unit.
3. Move the zoom position between TELE and WIDE, pressing the Zoom(▲)(▼) buttons on the projector or remote control unit. If the focus of grid-pattern is shifted by moving the zoom position between TELE and WIDE, readjusting is necessary. Adjust the focus with the following procedure.

Adjustment :

1. Loosen four screws-A using ball allen wrench.
2. Set the image size to maximum, pressing Zoom(▲) button on the projector or remote control unit.
3. Take the focus of green grid pattern, pressing Focus(▲)(▼) buttons on the projector or remote control unit.
4. Set the image size to minimum, pressing Zoom(▼) button on the projector or remote control unit.
5. Insert a slot screwdriver into slot-B, turn it and take the focus of the green grid pattern.
6. Repeat steps 2 to 5. If the focus is not shifted by moving the ZOOM position between TELE and WIDE, focus adjustment has been completed.
7. Tighten four screws-A to fix the assembly LCD panel / prism using ball allen wrench.

LCD Panel convergence adjustment.

Preparation before convergence adjustment.

Install a "**Convergence adjuster**" with the following procedure before a convergence adjustment.

1. Loosen 2 screws B on a convergence adjuster. (See figure-1)
2. Put a convergence adjuster on a prism unit, insert 2 screws A and tighten it a bit. (See figure-1)
   (2 screws A are contained in this adjuster package)
3. Loosen 2 screws D. (Figures 3 and 4) And move the LCD panel unit to the position which you can insert a convergence adjuster to the LCD panel unit easily. (See figures 2 and 4.)
4. Slide a convergence adjuster in the direction of the arrow-**C** and insert a convergence adjuster to the LCD panel unit. (See figures 2 and 4.)
5. Tighten 2 screws A and 2 screws B. Preparation of convergence adjustment has been completed.

To remove the adjuster, take reversed step in the above.

Convergence Adjuster :

The convergence adjustment tool can be ordered.
See page 44.

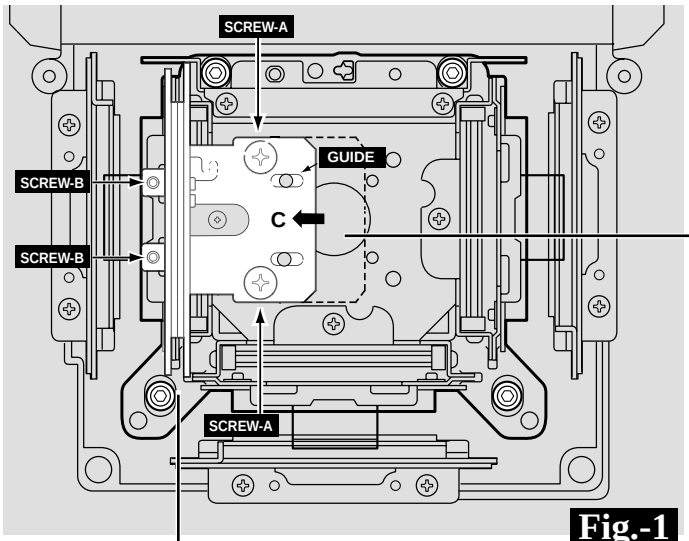


Fig.-1

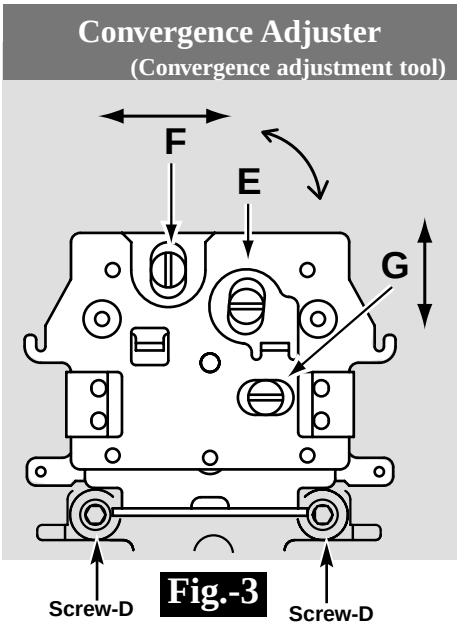


Fig.-3

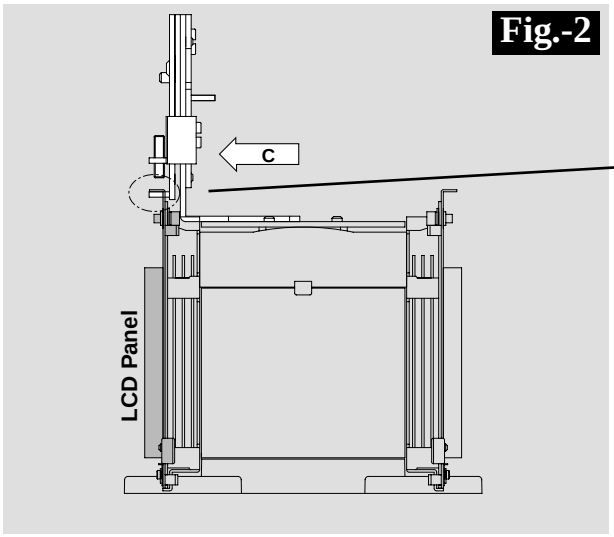


Fig.-2

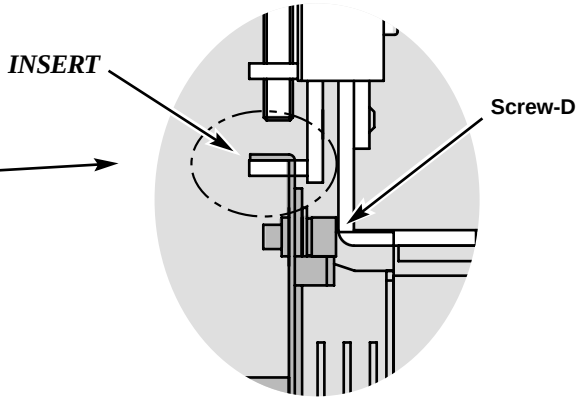


Fig.-4

LCD Panel convergence adjustment.

Before convergence adjustment.

■ Make sure each Red, green and Blue LCD Panel has been correctly installed, and that focus adjustment has been completed before preforming convergence adjustment.

■ Screws E, F and G (Figure-3 on page-46.) are for convergence adjustment.

Caution:

■ **Don't replace the Red, Green and Blue LCD panels simultaneously!**

It becomes impossible to adjust a convergence, if all the LCD panels are simultaneously replaced. When all the LCD panels are damaged, replace the whole LCD panel / prism assembly.

■ **Don't use the light block sheet.**

Don't use the light block sheet. It becomes the cause which burns polarizer.

Image movement and screw turning.

To make parallel. ;The adjustment screw "**E**" turns an image.
To converge vertical line. ;The adjustment screw "**F**" moves an image horizontally.
To converge horizontal line. ;The adjustment screw "**G**" moves an image vertically.

Convergence adjustment

1. Enter the mode of "service adjustment" and project a grid pattern on a screen. (Refer to the item 3 of "before adjustment " on page 44.)

■ When the **Green** LCD panel is replaced, project a **Cyan** or **Yellow** grid pattern.

■ When the **Red** LCD panel is replaced, project a **Yellow** grid pattern.

■ When the **Blue** LCD panel is replaced, project a **Cyan** grid pattern.

2. Loosen the 2 screws-**D** (Figure 3 and 4 on page46), or check that they are loosening.

To parallel the grid pattern.

3. Adjust the screw-**E***(The adjustment screw "***E***" turns an image.)* so that the grid pattern which needs adjustment may be paralleled with a standard grid pattern. (Figure-5)

To converge the vertical line.

4. Adjust the screw-**F***(The adjustment screw* **F***" moves an image horizontally.)* so that the vertical line of grid pattern which needs adjustment may be converged with the vertical line of a standard grid pattern. (Figure-6)

5. Tune finely by repeating Steps 3 and 4.

To converge the horizontal line.

6. Adjust the screw-**G***(The adjustment screw "***G***" moves an image vertically.)* so that the horizontal line of grid pattern which needs adjustment may be converged with the horizontal line of a standard grid pattern. (Figure-7)

7. Tune finely by repeating steps 3 through 6.

8. Tighten the 2 screws-**D** (previously loosened in step 2 above) with the allen wrench.

9. After tightening the screws, check the adjusted convergence condition. If not aligned repeat steps 2 through 8. (**Note :** The convergence condition may shift by tightening the screw-**D**.)

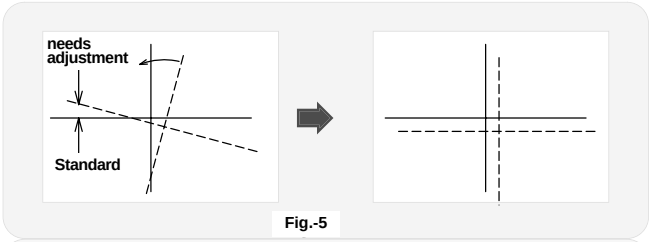


Fig.-5

Fig.-6

Fig.-7

■ Integrator-lens-out adjustment

START

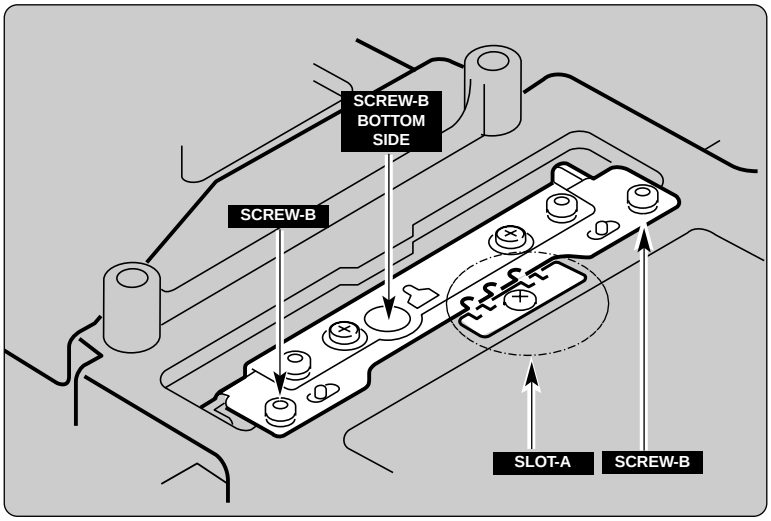
Integrator-lens-out unit

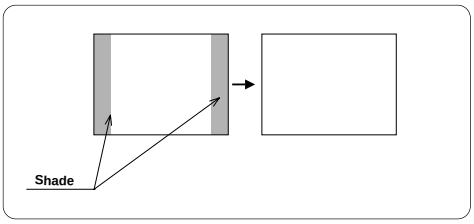
Before Adjustment :

1. Remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.
2. If the shade appears on the left or right of the screen, adjust the integrator lens out with the following procedure.

Adjustment :

1. Loosen three screws-B.
2. Insert a slot screwdriver into slot-A, turn and adjust it so that the shade may disappear or reduce.
3. Tighten the three screws B to fix the integrator lens out.





Change the lamp mode to “Lamp-1”.
(Refer to operation method-1 on page-49)

Check the condition of Unevenness color on the screen.

Unevenness color : N.G.

Fine adjustment-1 Integrator lens out
(Refer to Fine adjustment-1 on page-49)

Unevenness color : Good

Change the lamp mode to “Lamp-2”.
(Refer to operation method-1 on page-49)

Check the condition of Unevenness color on the screen.

Unevenness color : Good

Change the lamp mode to “Lamp 1 and 2”.
(Full lamp mode)
(Refer to operation method-1 on page-49)

END

Unevenness color : N.G.

Fine adjustment-1 Integrator lens out
(Refer to Fine adjustment-1 on page-49)

Change the lamp mode to “Lamp-1”.
(Refer to operation method-1 on page-49)

Operation method-1 :

(A) Turn off the projector. Next, connect the flexible cables of the LCD panels to the assembly Main. Turn on the projector.

(B) Enter the mode of "service adjustment". **(Refer to "service adjustment" on page 35.)**

(C) Select each Group and Item No..

Full lamp mode : Select " 930-0 "
To light only the "Lamp-1" : Select " 930-1 "
To light only the "Lamp-2" : Select " 930-2 "

If the **data value** appears "**11**" then go to (**D**),
or appears "**0**" then set the data value to "**10**" and go to (**D**),
or appears "**10**" then wait until it is changed to "**0**" and set the data value to "**10**" and go to (**D**).

(D) Press power on/off button to quit the service mode.

(E) Turn off the projector. Remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.

Fine adjustment-1 : Integrator lens out

1. Loosen three screws-B on the Integrator lens out unit.
2. Insert a slot screwdriver into slot-A on the Integrator lens out unit, turn and adjust it so that the screen may obtain even color.
3. Tighten the three screws B to fix the integrator lens-out.

Fine adjustment-2 : Integrator lens in

1. Loosen 2 screws-A on the Integrator lens in unit.
2. Insert a slot screwdriver into slot-C on the Integrator lens in unit, turn and adjust it so that the screen may obtain even color.
3. Tighten the 2 screws A to fix the integrator lens-in.

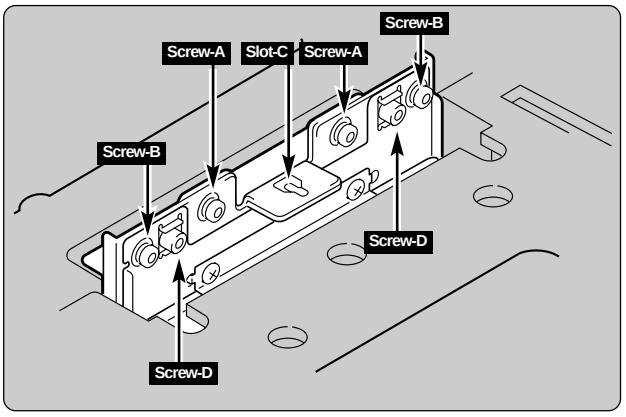
■ *Integrator-lens-in adjustment*

START

Change the lamp mode to “Lamp-1”.
(Refer to operation method-1 on page-49)

Adjustment :

1. Remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.
2. loosen 2 screws A and 2 screws B.
3-1. Insert slot screwdriver into slot-C and turn it until the shade appears on the left and right of the screen.
3-2. Turn 2 screws-D until the shade appears on the top and bottom of the screen. (Figure 1-a)
4. Turn and adjust the 2 screws D and take the focus of the shade edge. (Figure 1-b)
5. Turn and adjust the 2 screws D so that the shade may disappear or reduce on the top and bottom of the screen. (Figure 2)
(**Note** : At the time, the adjusted focus at Step-4 must not shift.)
6. Insert slot screwdriver into slot-C, turn and adjust it so that the shade may disappear or reduce on the left and right of the screen. (Figure 3)
7. Tighten 2 screws A and 2 screws B to fix the integrator-lens-in.



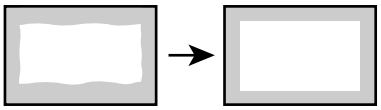


Figure-1

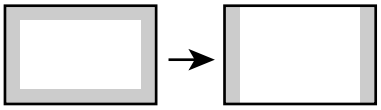


Figure-2

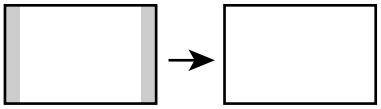


Figure-3

Check the condition of Unevenness color on the screen.

Unevenness color : N.G.

Fine adjustment-2 Integrator lens in
(Refer to Fine adjustment-2 on page-49)

Unevenness color : Good

Change the lamp mode to “Lamp-2”.
(Refer to operation method-1 on page-49)

Check the condition of Unevenness color on the screen.

Unevenness color : Good

Change the lamp mode to “Lamp 1 and 2”.
(Full lamp mode)
(Refer to operation method-1 on page-49)

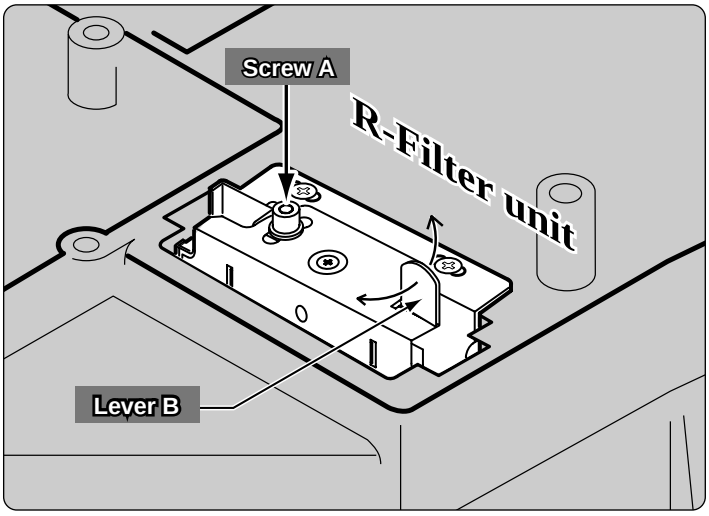
END

Unevenness color : N.G.

Fine adjustment-2 Integrator lens in
(Refer to Fine adjustment-2 on page-49)

Change the lamp mode to “Lamp-1”.
(Refer to operation method-1 on page-49)

■ R-Filter adjustment

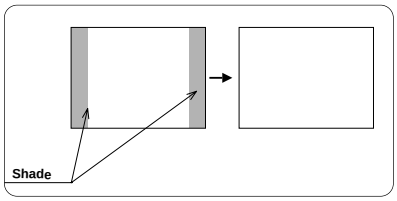


Before Adjustment :

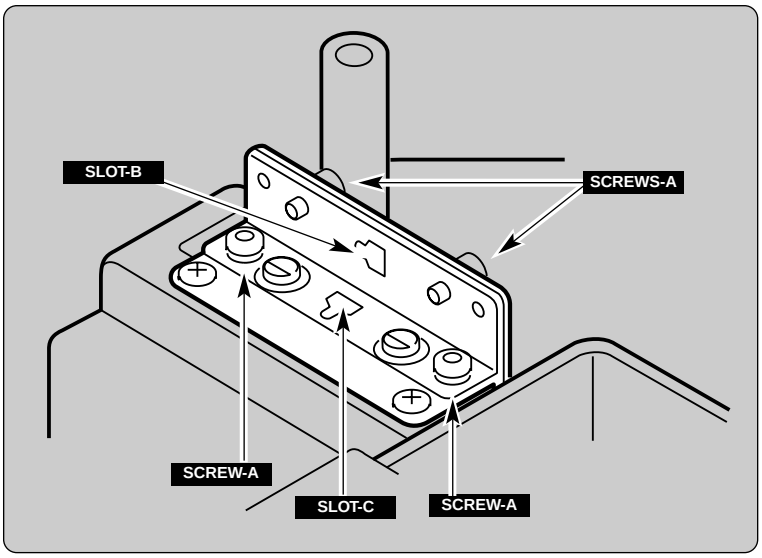
1. Remove the connector K8E and connector K8V, and remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.
2. If the shade appears on the left and right of the screen, adjust the R-Filter with the following procedure.

Adjustment :

1. Set the assembly-Main to the upright position.
2. Loosen screw-A.
3. **Move and adjust the lever B in the direction of an arrow so that the shade may disappear or reduce**.
4. Tighten the screw-A to fix the R-Filter.



■ Relay-lens adjustment

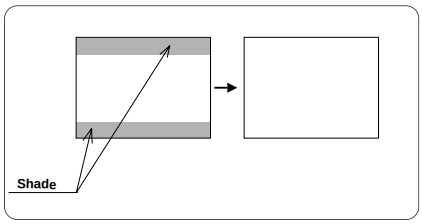


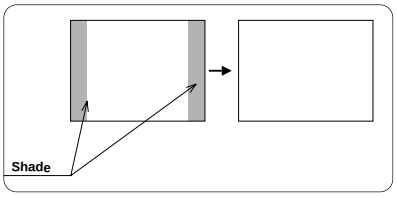
Before Adjustment :

1. Remove the connector K8E and connector K8V, and remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.
2. If the shade appears on the screen, adjust the Relay-lens with the following procedure.

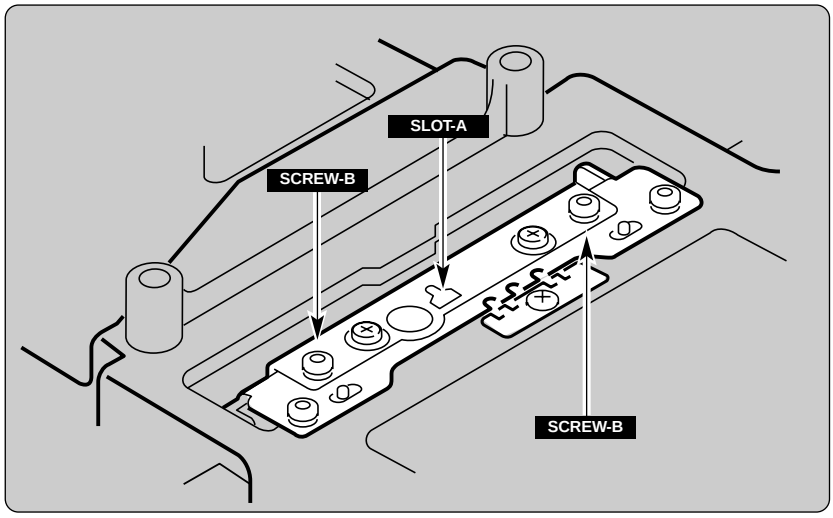
Adjustment :

1. Set the assembly-Main to the upright position.
2. Loosen four screws-A.
3. If it appears on the top or bottom.---> Use slot-B.
   If it appears on the left or right. -----> Use slot-C.
   Insert slot screwdriver into each slot, **turn and adjust it so that the shade on the screen may disappear or reduce**.
4. Tighten the four screws-A to fix the Relay-lens.





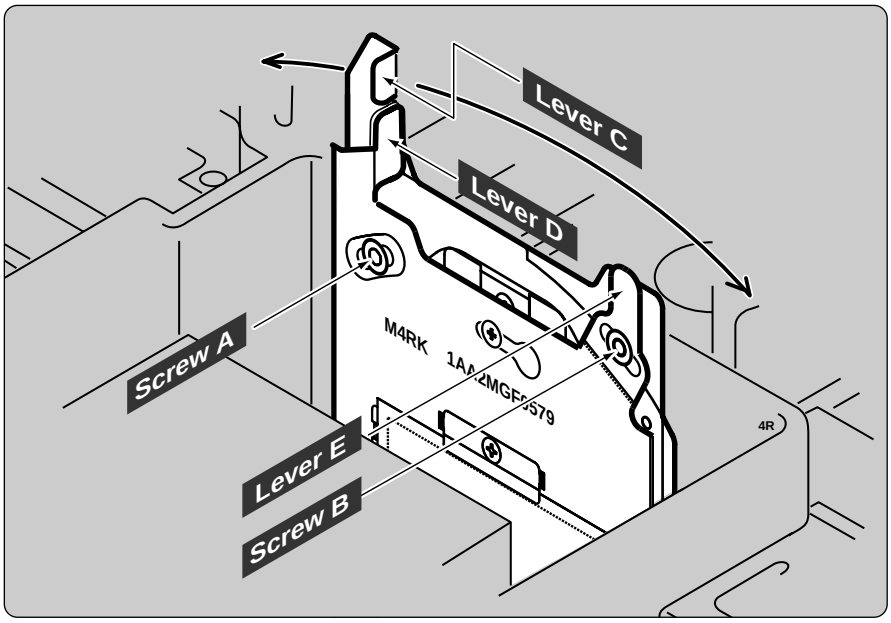
■ Prism P.B.S. adjustment



Adjustment :

1. Remove the flexible cables on LCD panels from the assembly Main. And turn on the projector.
2. Loosen two screws-B.
3. Insert a slot screwdriver into slot-A. **Adjust the brightness on center area of the screen to the brightest** by turning a slot screwdriver.
4. Tighten the two screws-B to fix the prism PBS.

■ Polarizer (and optical filter) adjustment



Adjustment :

1. Turn on a projector. And input the black raster signal(0% white raster signal.)
2. Loosen two screws A and B on the polarizer unit which you intend to adjust using ball allen wrench.
3. **Adjust the brightness on the screen to the darkest** by moving the levers C and D in the direction of an arrow.
4. Tighten the screw A to fix the polarizer.
5. **Adjust uneven black on the screen so that the screen may obtain even black** by moving the lever E in the direction of an arrow.
6. Tighten the screw B to fix the optical filter.
7. Repeat steps 2 to 6 and adjust the polarizer unit of other colors.

Note :
Screw A: Screw for polarizer.
Screw B: Screw for optical filter.

CPU and I/O-Expander Control port functions

CPU (IC801 144 pin) Control port functions

Pin No.	Name	Function Name	Function	Polarity	I/O
1	PA23/WRHH	USB RESET	USB Reset signal	Active L	O
2	PE14/TIOC4C/DACK0/AH				O
3	PA22/WRHL				
4	PA21/CASHH	RS232C_SW	RS232C Output select signal		O
5	PE15/TIOC4D/DACK1/IRQOUT	POWER SW	"L":Power OFF "H":Power ON		O
6	VSS	GND			
7	PC0/A0	ADDRESS0	Address Bus 0		O
8	PC1/A1	ADDRESS1	Address Bus 1		O
9	PC2/A2	ADDRESS2	Address Bus 2		O
10	PC3/A3	ADDRESS3	Address Bus 3		O
11	PC4/A4	ADDRESS4	Address Bus 4		O
12	VCC	5V			
13	PC5/A5	ADDRESS5	Address Bus 5		O
14	VSS	GND			
15	PC6/A6	ADDRESS6	Address Bus 6		O
16	PC7/A7	ADDRESS7	Address Bus 7		O
17	PC8/A8	ADDRESS8	Address Bus 8		O
18	PC9/A9	ADDRESS9	Address Bus 9		O
19	PC10/A10	ADDRESS10	Address Bus 10		O
20	PC11/A11	ADDRESS11	Address Bus 11		O
21	PC12/A12	ADDRESS12	Address Bus 12		O
22	PC13/A13	ADDRESS13	Address Bus 13		O
23	PC14/A14	ADDRESS14	Address Bus 14		O
24	PC15/A15	ADDRESS15	Address Bus 15		O
25	PB0/A16	ADDRESS16	Address Bus 16		O
26	VCC	5V			
27	PB1/A17	ADDRESS17	Address Bus 17		O
28	VSS	GND			
29	PA20/CASHL	SCL 1	IIC Bus 1 Clock		I/O
30	PA19/BACK/DRAK1	SDA 1	IIC Bus 1 Data		I/O
31	PB2/IRQ0/POE0/RAS				
32	PB3/IRQ1/POE1/CASL				
33	PA18/BREQ/DRAK0	SYS SW	IC on/off Switch (ON="L", OFF="H")		O
34	PB4/IRQ2/POE2/CASH	AFT-V	V SYNC Input (LCD Panel Drive)	Active L	I
35	VSS	GND			
36	PB5/IRQ3/POE3/RDWR				I
37	PB6/IRQ4/A18/BACK	ADDRESS18	Address Bus 18		O
38	PB7/IRQ5/A19/BREQ	ADDRESS19	Address Bus 19		O
39	PB8/IRQ6/A20/WAIT	ADDRESS20	Address Bus 20		O
40	VCC	5V			
41	PB9/IRQ7/A21/ADTRG	ADDRESS21	Address Bus 21		O
42	VSS	GND			
43	PA14/RD	READ	Read Signal	Active L	O
44	WDTOVF				
45	PD31/D31/ADTRG	RTS	RS232C RTS (Request To Send)		O
46	PD30/D30/IRQOUT	CTS	RS232C CTS (Clear To Send)		I
47	PA13/WRH				
48	PA12/WRL	WRL	Write Signal (L-8Bit)	Active L	O
49	PA11/CS1				
50	PA10/CS0	CS0	Flash Memory Chip Select	Active L	O
51	PA9/TCLKD/IRQ3	SCL 2	IIC Bus 2 Clock		I/O
52	PA8/TCLKC/IRQ2	SDA 2	IIC Bus 2 Data		I/O
53	PA7/TCLKB/CS3	CS3	USB/IP/IO EXP/SRAM/FIFO Chip Select	Active L	O
54	PA6/TCLKA/CS2	CS2	CXD3511Q Chip Select	Active L	O
55	VSS	GND			
56	PD29/D29/CS3				
57	PD28/D28/CS2	PW_SEL	PW365 232C Select(SH="H",PIXEL="L")		O
58	PD27/D27/DACK1	PW_INTR	PW365 Interrupt Signal		O
59	PD26/D26/DACK0	PW_OUT1	PW365 Data Outout		O
60	PD25/D25/DREQ1	PW_OUT0	PW365 Data Output		O
61	VSS	GND			
62	PD24/D24/DREQ0				
63	VCC	5V			
64	PD23/D23/IRQ7				
65	PD22/D22/IRQ6				
66	PD21/D21/IRQ5				
67	PD20/D20/IRQ4	SCONF_DONE	Single to Dual converter Enhancer Done Signal		I/O
68	PD19/D19/IRQ3	SSTATUSq	Single to Dual converter Enhancer Status Signal		I/O
69	PD18/D18/IRQ2	PW_IN1	PW365 Data Input		I
70	PD17/D17/IRQ1	PW_IN0	PW365 Data Input		I
71	VSS	GND			

CPU and I/O-Expander Control port functions

Pin No.	Name	Function Name	Function	Polarity	I/O
72	PD16/D16/IRQ0	PW_PG_SEL	PW365 232C Write SW(SH="H",PIXEL="L")		I
73	PD15/D15	DATA15	Data Bus 15		I/O
74	PD14/D14	DATA14	Data Bus 14		I/O
75	PD13/D13	DATA13	Data Bus 13		I/O
76	PD12/D12	DATA12	Data Bus 12		I/O
77	VCC	5V			
78	PD11/D11	DATA11	Data Bus 11		I/O
79	VSS	GND			
80	PD10/D10	DATA10	Data Bus 10		I/O
81	PD9/D9	DATA9	Data Bus 9		I/O
82	PD8/D8	DATA8	Data Bus 8		I/O
83	PD7/D7	DATA7	Data Bus 7		I/O
84	PD6/D6	DATA6	Data Bus 6		I/O
85	VCC	5V			
86	PD5/D5	DATA5	Data Bus 5		I/O
87	VSS	GND			
88	PD4/D4	DATA4	Data Bus 4		I/O
89	PD3/D3	DATA3	Data Bus 3		I/O
90	PD2/D2	DATA2	Data Bus 2		I/O
91	PD1/D1	DATA1	Data Bus 1		I/O
92	PD0/D0	DATA0	Data Bus 0		I/O
93	VSS	GND			
94	XTAL	XTAL	OSC Signal Input		I
95	MD3	Mode-3	Mode-3		I
96	EXTAL	EXTAL	OSC Signal Output		O
97	MD2	Mode-2	Mode-2		I
98	NMI	NONMASK	NONMASK		I
99	VCC (FWP)	FWP	Flash Memory Write Mode		I
100	PA16/AH	FLASH MODE	FWP Control		O
101	PA17/WAIT				O
102	MD1	Mode-1	Mode-1		I
103	MD0	Mode-0	Mode-0		I
104	PLLVCC	PLLVCC	PLL Vcc		
105	PLLCAP	PLLCAP	PLL Filter		
106	PLLVSS	PLLGND	PLL Gnd		
107	PA15/CK	M-CLK	CPU Clock Output (Auto Image FPGA)		O
108	RES	Reset	Reset	Active L	I
109	PE0/TIOC0A/DREQ0	PCTL	CXD3511Q		O
110	PE1/TIOC0B/DRAK0	SCL 6	IIC Bus 6 Clock		I/O
111	PE2/TIOC0C/DREQ1	SDA 6	IIC Bus 6 Data		I/O
112	VCC	5V			
113	PE3/TIOC0D/DRAK1	SDA 3	IIC Bus 3 Data		I/O
114	PE4/TIOC1A	SCL 3	IIC Bus 3 Clock		I/O
115	PE5/TIOC1B	SDA 4	IIC Bus 4 Data		I/O
116	PE6/TIOC2A	SCL 4	IIC Bus 4 Clock		I/O
117	VSS	GND			
118	PF0/AN0	KEY1	Top Control Keys-1 (A/D Input)		I
119	PF1/AN1	KEY2	Top Control Keys-2 (A/D Input)		I
120	PF2/AN2	KEY3	Top Control Keys-3 (A/D Input)		I
121	PF3/AN3	OPT1	Logo Mark		I
122	PF4/AN4	Press Sensor	Atmospheric Pressure Sensor		I
123	PF5/AN5	Temp Sensor	Thermistor		I
124	AVSS	GND	A / D Gnd		
125	PF6/AN6	POWER FAIL	Power Fail (L : Abnormality)		I
126	PF7/AN7	SDATA IN	SDATA IN		I
127	AVREF	5V	5V A / D REF.		
128	AVCC	5V	5V A / D Vcc		
129	VSS	Gnd			
130	PA0/RXD0	SH_RX	PW365 Rx		I
131	PA1/TXD0	SH_TX	PW365 Tx		O
132	PA2/SCK0/DREQ0/IRQ0				
133	PA3/RXD1	Rx	RS232C Rx		I
134	PA4/TXD1	Tx	RS232C Tx		O
135	VCC	5V			
136	PA5/SCK1/DREQ1/IRQ1	USB INTR	USB Interrupt Signal Input	Active L	I
137	PE7/TIOC2B	SDA 5	IIC Bus 5 Data		I/O
138	PE8/TIOC3A	SCL 5	IIC Bus 5 Clock		I/O
139	PE9/TIOC3B	SDATA OUT	Single to Dual converter Enhancer Data Output Signal		O
140	PE10/TIOC3C	SCLK	Single to Dual converter Enhancer Clock Output Signal		O
141	VSS	Gnd			
142	PE11/TIOC3D	EXP RESET	I/ O Expander	Active H	O
143	PE12/TIOC4A	R/C	R / C Input	Active L	I
144	PE13/TIOC4B/MRES	PW RESET	PW365 Reset Signal	Active L	O

CPU and I/O-Expander Control port functions

I/O Expander Control port functions (IC1801 64 pin)

Y / V

Pin No.	Name	Function Name	Function	Polarity	I/O
1	PF6	BLAST_SW3	Lamp Ballast **1** On/Off SW *	ON = H	O
2	PF7	BLAST_SW4	Lamp Ballast **2** On/Off SW *	ON = H	O
3	Vcc	Vcc	5V ±10%		-
4	PE0	LENS_UP	Lens Up		O
5	PE1	LENS_DOWN	Lens Down		O
6	PE2	LENS_RIGHT	Not used Lens Right *		O
7	PE3	LENS_LEFT	Not used Lens Left *		O
8	PE4	FOCUS+	Focus +		O
9	PE5	FOCUS-	Focus -		O
10	PE6	ZOOM+	Zoom +		O
11	PE7	ZOOM-	Zoom -		O
12	GND3	GND			-
13	PB0	LENS_TOP	Lens Top Detection	Top= " L "	I
14	PB1	LENS_VC	Lens U/D Center Detection	Center= Edge	I
15	PB2	LENS_BOT	Lens Bottom Detection	Bottom= "L"	I
16	PB3	LENS_RE	Not used Lens Right Detection *	Right= "L"	I
17	PB4	LENS_HC	Not used Lens R/L Detection *	Center= Edge	I
18	PB5	LENS_LE	Not used Lens Left Detection *	Left= "L"	I
19	PB6	SEL_CTIN1	SEL_CTIN1	INIT	I
20	PB7	SEL_CTIN2	SEL_CTIN2	DONE_SEL	I
21	PA7				O
22	PA6				O
23	PA5				O
24	PA4	RESET	FPGA Reset	Low->High Reset	O
25	PA3				O
26	PA2	50_60_SW	50/60Hz Select SW	50Hz= "L"	O
27	PA1	CG_SW	CG Select SW	CG= "H"	O
28	PA0	COMP_SW	COMPONENT Select SW	COMPO= "L"	O
29	Vcc	Vcc	5V ±10%		-
30	RD	READ_CPU	Read Select	Active "L"	I
31	WR	WRITE_CPU	Write Select	Active "L"	I
32	CS	CS_EXP	Chip Select	Active "L"	I
33	RESET	EXP_RST	Reset	Active "H"	I
34	GND1	GND			-
35	A2	A2CPU	Port Select 2		I
36	A1	A1CPU	Port Select 1		I
37	A0	A0CPU	Port Select 0		I
38	D0	D0CPU	Data Bus 0		I/O
39	D1	D1CPU	Data Bus 1		I/O
40	D2	D2CPU	Data Bus 2		I/O
41	D3	D3CPU	Data Bus 3		I/O
42	D4	D4CPU	Data Bus 4		I/O
43	D5	D5CPU	Data Bus 5		I/O
44	D6	D6CPU	Data Bus 6		I/O
45	D7	D7CPU	Data Bus 7		I/O
46	PC7	SLOT_SEL1	Slot select 1		O
47	PC6	SLOT_SEL2	Slot select 2		O
48	PC5				O
49	PC4	AUDIO_MUTE	Mute Output		O
50	PC0	LAMP1	Not used PFC On/Off SW *	ON = H	O
51	PC1	LAMP2	Not used PFC On/Off SW *	ON = H	O
52	PC2	LAMP3	PFC **1** On/Off SW *	ON = H	O
53	PC3	LAMP4	PFC **2** On/Off SW *	ON = H	O
54	PG0	LAMP1_ERR	Not used Lamp monitor *	Abnormality "H"	I
55	PG1	LAMP_ERR	Not used Lamp monitor *	Abnormality "H"	I
56	PG2	LAMP3_ERR	Lamp monitor **1** *	Abnormality "H"	I
57	PG3	LAMP4_ERR	Lamp monitor **2** *	Abnormality "H"	I
58	GND2	GND			-
59	PF0	TEMP_LED	Temp Warning LED Drive	LED ON = "L"	O
60	PF1	LAMP_LED	Lamp Replacement LED Drive	LED ON = "L"	O
61	PF2	READY_LED	Ready LED Drive	LED ON = "L"	O
62	PF3	SP_SW	Speaker on/off Switch	"L":ON "H":OFF	O
63	PF4	BLAST_SW1	Not used Lamp Ballast On/Off SW *	ON = H	O
64	PF5	BLAST_SW2	Not used Lamp Ballast On/Off SW *	ON = H	O

CPU and I/O-Expander Control port functions

Output Expander Control port functions (IC1822 20 pin)

Pin No.	Name	Function Name	Function	Polarity	I/O
1	OE	EXP_RST			
2	O0	SCONFIG	Single to Dual converter Enhancer CONFIG Signal		O
3	D0		Data Bus 0		
4	D1		Data Bus 1		
5	O1	IP_RESET	IP_RESET		O
6	O2	PROGRAM	PROGRAM		O
7	D2	Data Bus 2			
8	D3	Data Bus 3			
9	O3	USB_BRST	USB on-off		O
10	GND		GND		
11	CP				
12	O4	BUS_SW1	BUS Select SW1		O
13	D4		Data Bus 4		
14	D5		Data Bus 5		
15	O5	BUS_SW2	BUS Select SW2		O
16	O6	BUS_SW3	BUS Select SW3		O
17	D6		Data Bus 6		
18	Çc7		Data Bus 7		
19	O7	SSTB	Single to Dual converter Enhancer STB Signal		O
20	Vcc		+5V		

I/O Expander Control port functions (IC9021 16 pin)

Pin No.	Name	Function Name	Function	Polarity	I/O
1	SO	S0	Serial Data Output		O
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	D0	M-IDA1	Slot 1 Type Detection 1		I
5	D1	M-IDA2	Slot 2 Type Detection 1		I
6	D2	M-IDA3	Slot 3 Type Detection 1		I
7	D3	M-IDA4	Slot 4 Type Detection 1		I
8	Vss	GND			-
9	D4	M-IDB1	Slot 1 Type Detection 2		I
10	D5	M-IDB2	Slot 2 Type Detection 2		I
11	D6	M-IDB3	Slot 3 Type Detection 2		I
12	D7	M-IDB4	Slot 4 Type Detection 2		I
13	Vdd		5V ±10%		-
14	CS2	CS2			I
15	CS1	CS1			I
16	CS0	CS0			I

I/O Expander Control port functions (IC9022 16 pin)

Pin No.	Name	Function Name	Function	Polarity	I/O
1	SO	S0	Serial Data Output		O
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	D0	M-IDC1	Slot 1 Type Detection 3		I
5	D1	M-IDC2	Slot 2 Type Detection 3		I
6	D2	M-IDC3	Slot 3 Type Detection 3		I
7	D3	M-IDC4	Slot 4 Type Detection 3		I
8	Vss	GNDÅ			-
9	D4	SLOT1 ID	SLOT1 ID		I
10	D5	SLOT2 ID	SLOT2 ID		I
11	D6	SLOT3 ID	SLOT3 ID		I
12	D7	SLOT4 ID	SLOT4 ID		I
13	VDD		5V ±10%		-
14	CS2	CS2			I
15	CS1	CS1			I
16	CS0	CS0			I

The cautions in schematic diagrams.

1. Safety significant parts.

Product safety should be considered when a component replacement is made in any area of the projector.

Components indicated by mark (⚠) in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of the parts must be made by exactly the same parts.

CAUTION

2. The cautions in collation of parts.

i) **Don't collate parts with schematic diagrams. Be sure to collate with parts list.**
The design of this product is under constant review. Therefor specifications are subject to change for improvement. And whilst every effort is made to keep this service manual up to date, part specifications may be different between schematic diagrams and parts list. In the case of this service manual, part specifications in the parts list are the latest data.

ii) Specification of capacitor and resistors will be shown with coded symbols, reading code symbols following the chart and notes. Some capacitor and resistors will be shown directly with values and no other information. Detailed information on each capacitor and resistor will be shown in the parts list.

3. Reading of parts.

Read resistor codes as follows:

1. All resistance values are indicated in ohms:
   K=1,000.
   M=1,000,000.
2. Wattage, material and tolerance codes can see it on the chart of next page.

Read capacitor codes as follows:

1. For capacitors identified with ⊣⊢, values less than 1 are expressed in uF, values more than 1 are in pF.
2. For capacitors (electrolytic) identified with ⊣⊢, values are expressed in uF.
3. Rated voltage, material and tolerance codes can see it on the chart of next page.

4. Risk of electric shock.

HOT CIRCUIT IS IDENTIFIED WITH THE LINE (≋) IN THE SCHEMATIC DIAGRAM.

The signal circuit and control circuit of this projector are insulated (COLD) from AC line by the insulation transformer inside the projector. But, assembly power, assembly PFC, assembly lamp ballast and assembly lamp are not insulated from AC line, and those are "HOT." An insulation transformer should be connected in the power line between the projector and the AC line before the service of hot circuit is performed on the projector.

CAUTION

Read description in the Capacitor and Resister as follows:

CAPACITOR

16 K K 0.47 BA

Characteristic

Rated value

Tolerance Symbols

Static capacitance of 10PF or less

A:	Nondesignated
B:	±0.1PF
C:	±0.25PF
D:	±0.5PF
F:	±1PF
G:	±2PF
H:	+0.1 ~ -0PF
L:	+0 ~ -0.1PF
R:	+0.25 ~ -0PF
S:	+0 ~ -0.25PF
E:	+0 ~ -1PF
J:	±5%
K:	±10%
M:	±20%

Note: J. K. and M are used only for tubular Ceramic Capacitors

Static capacitance of more than 10PF

A:	Nondesignated
B:	±0.1%
C:	±0.25%
D:	±0.5%
F:	±1%
G:	±2%
E:	±2.5%
H:	±3%
J :	±5%
K:	±10%
L :	±15%
M:	±20%
N:	±30%
P:	+100 ~ -0%
Q:	+30 ~ -10%
R:	+20 ~ -0%
T:	+50 ~ -10%
U:	+75 ~ -10%
V:	+20 ~ -10%
W:	+100 ~ -10%
X:	+40 ~ -20%
Y:	+150 ~ -10%
Z:	+80 ~ -20%

Material :

C	CERAMIC	Temperature compensating ceramic
K	CERAMIC	High dielectric rate ceramic
B	CERAMIC	Semiconductor ceramic
Z	MT-PAPER	Metallized paper
F	POLYESTER	Polyester
G	MT-POLYEST	Metallized polyester
N	POLYPRO	Polypropylene
M	MT-POLYPRO	Metallized polypropylene
Y	COMPO FILM	Composite film
H	MT-COMPO	Metallized composite film
S	STYRENE	Styrol
T	TA-SOLID	Tantalum oxide solid electrolytic
A	AL-SOLID	Aluminum solid electrolytic
E	ELECT	Aluminum foil electrolytic
P	NP-ELECT	Non-polarized electrolytic
U	OS-SOLID	Aluminum solid capacitors with organic semiconductive electrolyte
V	POS-SOLID	Polymerized organic semiconductor
D	DL-ELECT	Electric double layer electrolytic
J	AL-SOLID	Aluminum manganese wind solid
L	PPS-FILM	Polyphenylene sulfide film
Q	MT-PPS-FILM	Metallized Polyphenylene sulfide film
R	MT-PEN-FILM	Metallized polyethylenenaphthalate film
W	EP-ELECT	Electric Conductor Polymerized Aluminum foil electrolytic
X	CAPACITOR	Other

Rated Voltage

FIXED RESISTER

1/10 G J 100K

Rated value, ohms : K: x1,000 ohms.
M: x1,000,000 ohms

Tolerance Symbols:

A:	±0.05%
B:	±0.1%
C:	±0.25%
D:	±0.5%
F:	±1%
G:	±2%
J:	±5%
K:	±10%
M:	±20%
P:	+5 ~-15%
Z:	Use when 0 ohm

Material :

D	CARBON	Carbon film fixed
N	MT-FILM	Metal film fixed
S	OXIDE-MT	Metal oxide film fixed
C	SOLID	Solid
G	MT-GLAZE	Metal glaze type fixed
W	WIRE WOUND	Power type covered wiring fixed
H	CERAMIC RES	Ceramic fixed
F	FUSIBLE RES	Fusible
X	RESISTER	Used for "others"

Rated Wattage

Chip transistor (list of replaceable)

Mark	**AJ**
	2SA1179-M6
	2SA1179-M7
	2SA1037K-R
	2SA1037K-S
	2SA1037AK-R
	2SA1037AK-S

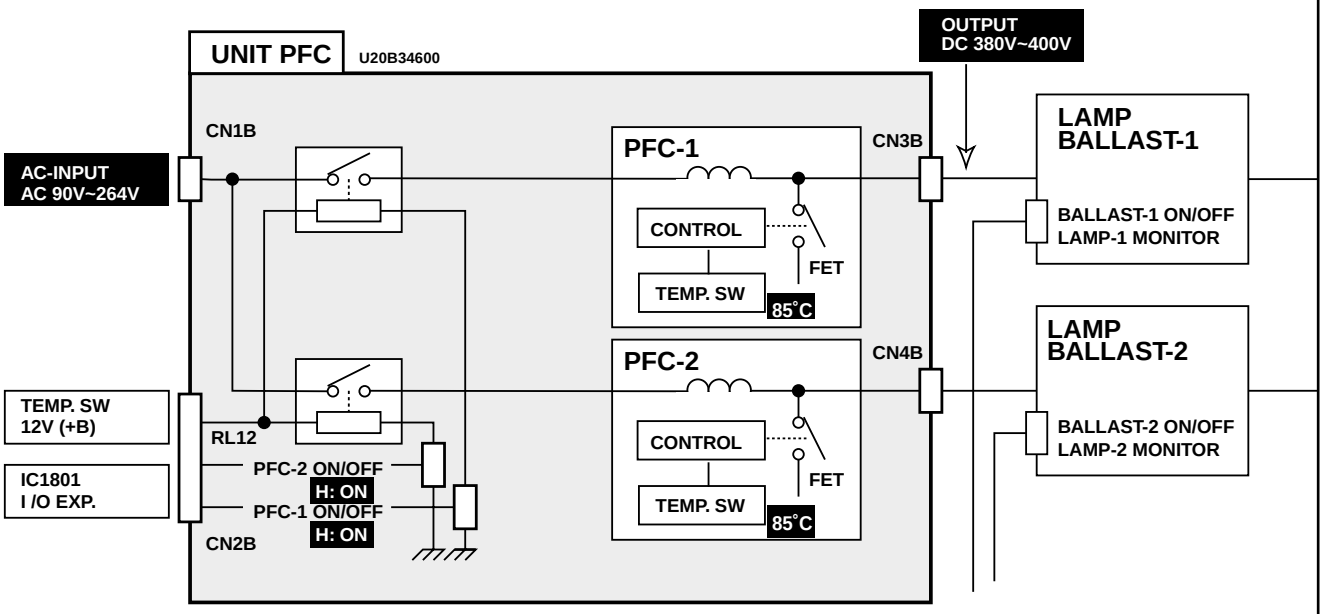
Mark	**AH**
	2SC2812-L6
	2SC2812-L7
	2SC2412K-R
	2SC2412K-S

Regulated ICs

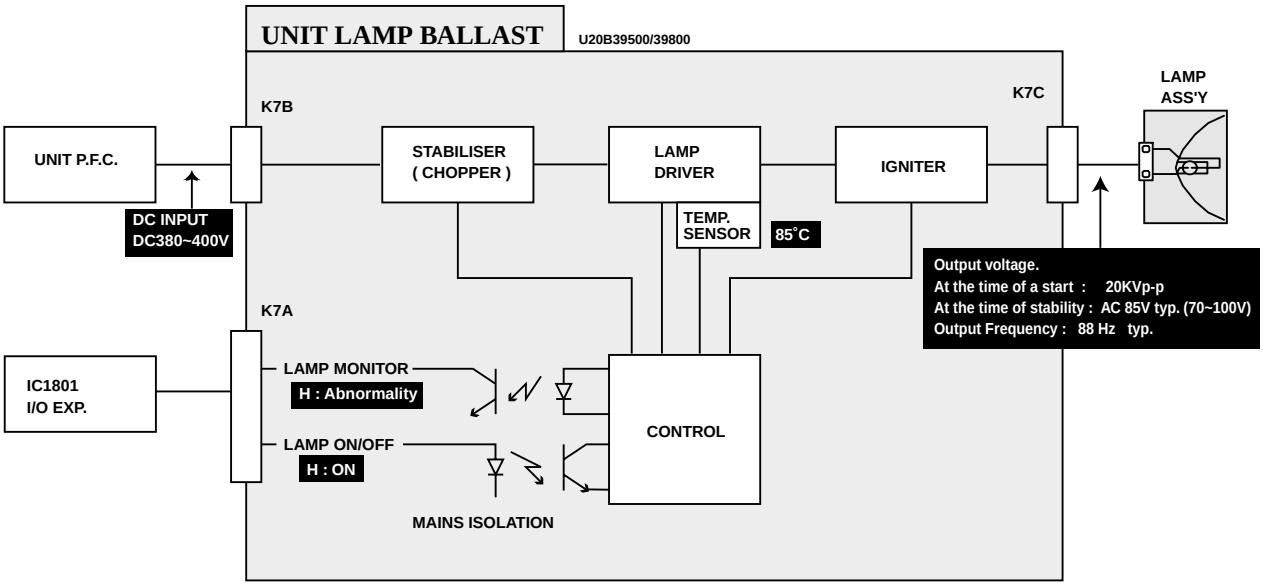
- **XC2S200-5 FG256C : SW FPGA**
- **XC2S150-5 PQ208 : Ghost Canceler**
- **XC2S100-5 PQ208 : Ghost Canceler**
- **LM76CHMX-5 : Temperature sensor**
- **EP1K100QC208-2 : Video Enhancer**
- **EP1K10TC144-1 : Single to Dual Converter**

These ICs fall under regulated parts provided in the Foreign Exchange and Foreign Trade Law, therefore this service manual refrains from to contain the block diagrams for these ICs just in case.

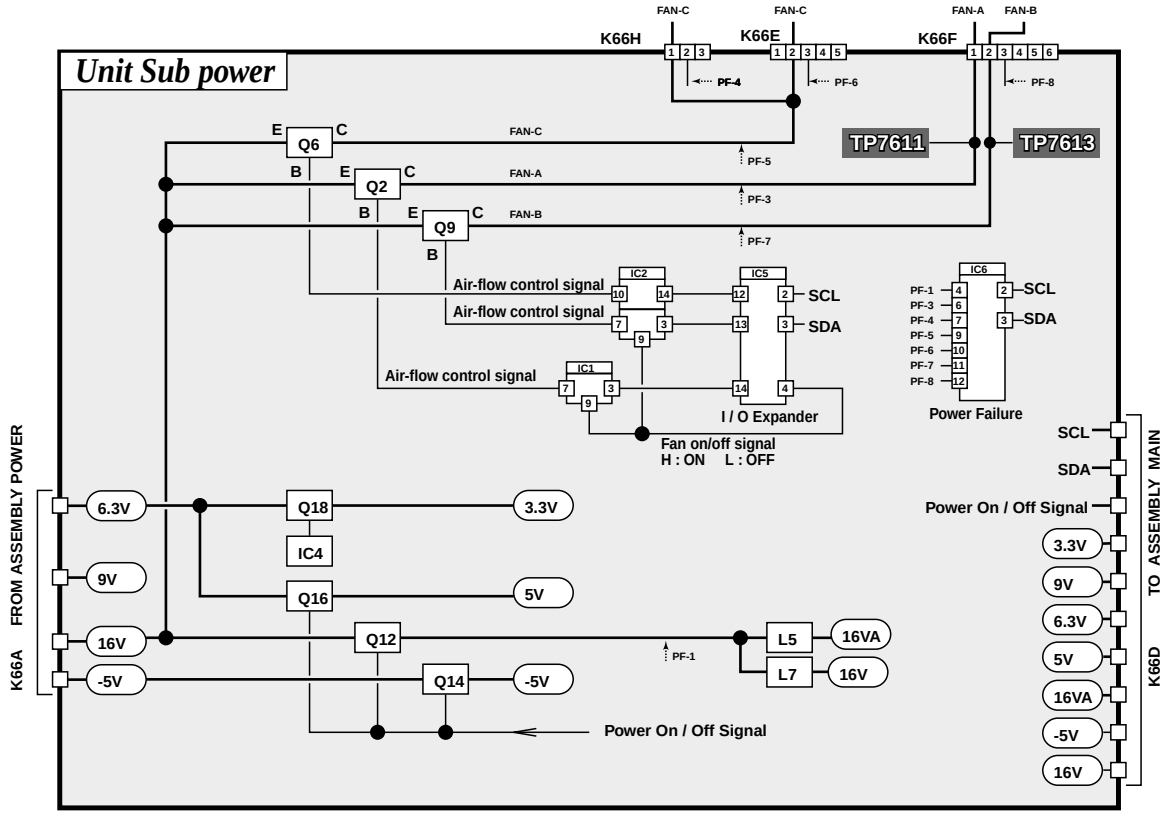
UNIT P.F.C.



UNIT LAMP BALLAST



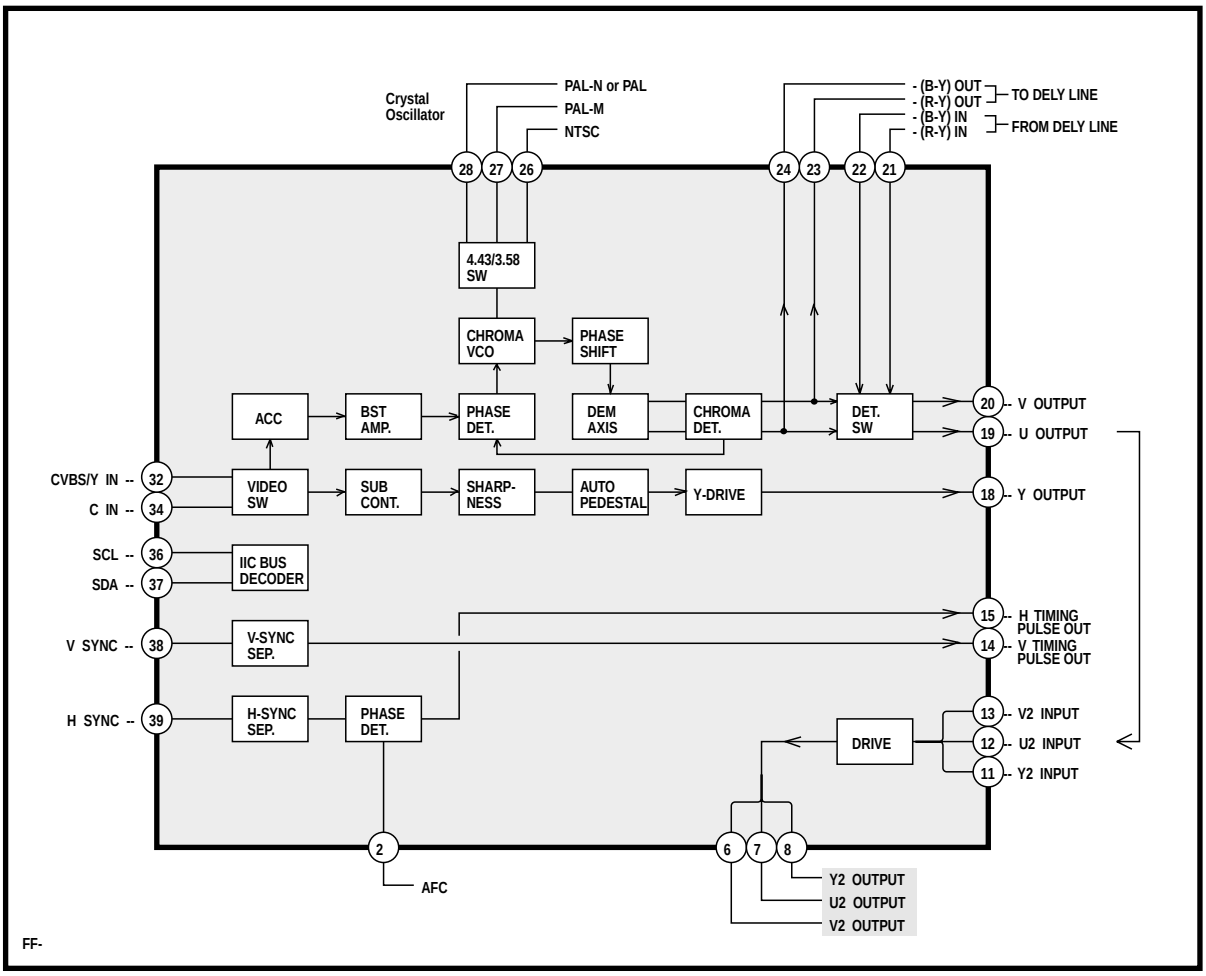
UNIT SUB POWER



CXA2019AQ

NTSC/PAL Chroma Decoder

FF-

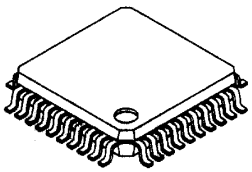


FF-

Description;

* The CXA2019AQ is a bipolar IC which integrates the luminance signal processing, chroma signal processing, and sync signal processing functions for NTSC/PAL system color TVs onto a single chip.

40 pin QFP (Plastic)



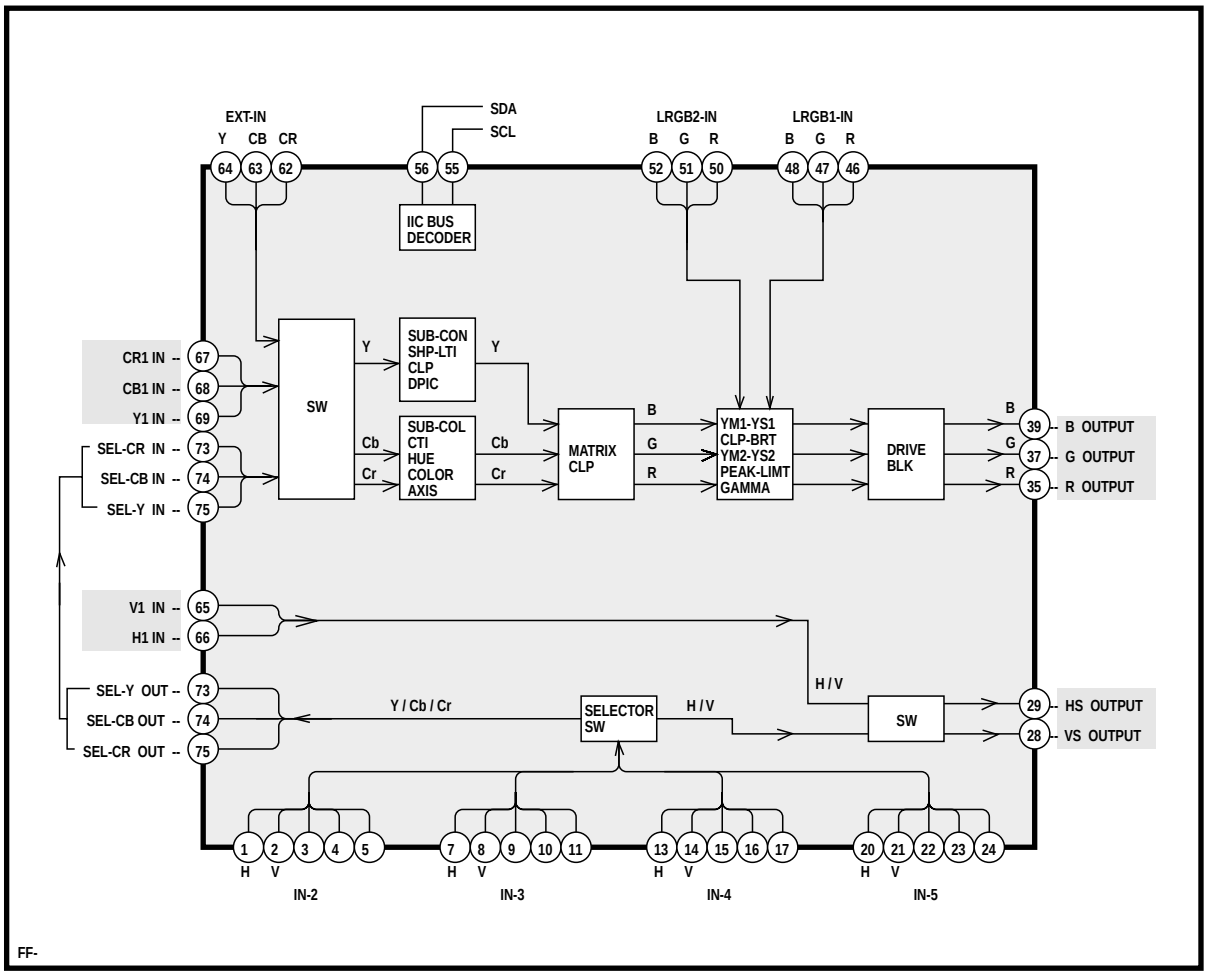
Features;

* Sub picture bright and white balance can be adjusted by using the main picture Y/C/J BGP output as the timing pulse.
* IIC BUS compatible; two bus lines (SCL, SDA) allow various adjustments and user controls.
* Countdown system eliminates need for H and V oscillator frequency adjustment.
* Non-adjusting Y system filters (chroma trap, delay line).
* Automatic identification of color system (forced control possible).
* Automatic identification of 50/60Hz vertical frequency (forced control possible).

CXA2101AQ

Multi -Component processor (Base Band Video Signal Processor IC)

FF-

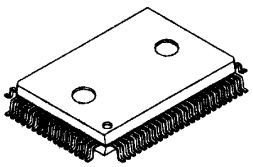


FF-

Description;

* The CXA2101AQ is a bipolar IC which integrates the following functions on a single chip; base band signal processing, RGB signal processing, and video switching for 4 systems (including HV sync signal processing) using YCbCr inputs.

80 pin QFP (Plastic)



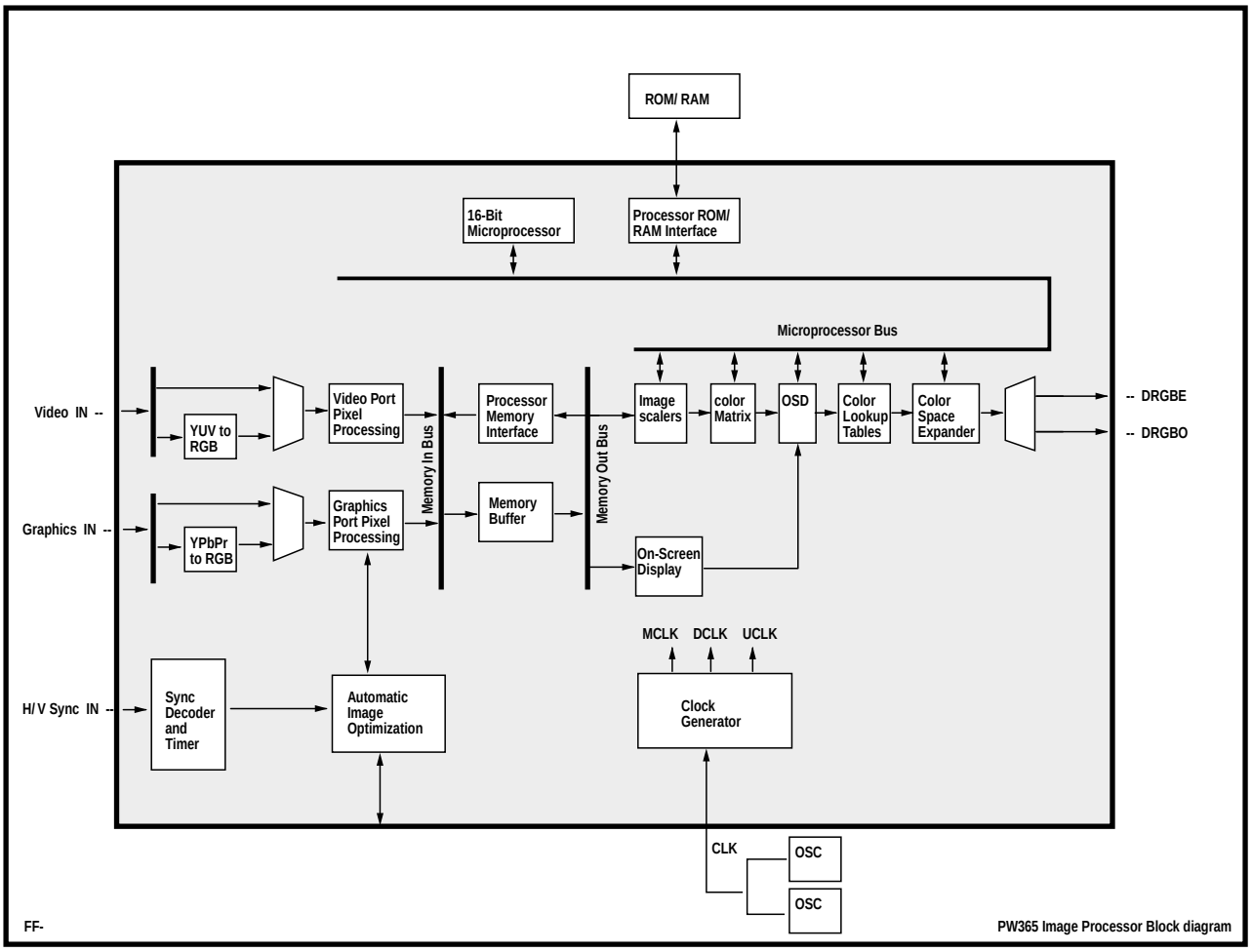
Features;

* IIC Bus compatible
* Multiscan supported
* Normal, PAL-FF, HD-TV supported
* On-chip video switching for 4 system
* On-chip automatic sync signal identification circuit (with fixed mode)

PW365-30U/ 20U/ 10U

Image processor

FF-



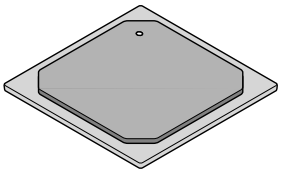
FF-

PW365 Image Processor Block diagram

Description;

* The PW365 Image Processor is a highly integrated “system-on-a-chip” that interfaces analog, digital, and video inputs in virtually any format to a digital projection system or multimedia display. The PW365 is pin-compatible with the PW364.
* An embedded SDRAM frame buffer and memory controller perform frame rate conversion. Computer image from VGA to UXGA at almost any refresh rate can be resized to fit on a fixed-frequency target display device with any resolution up to UXGA with full24-bit color.

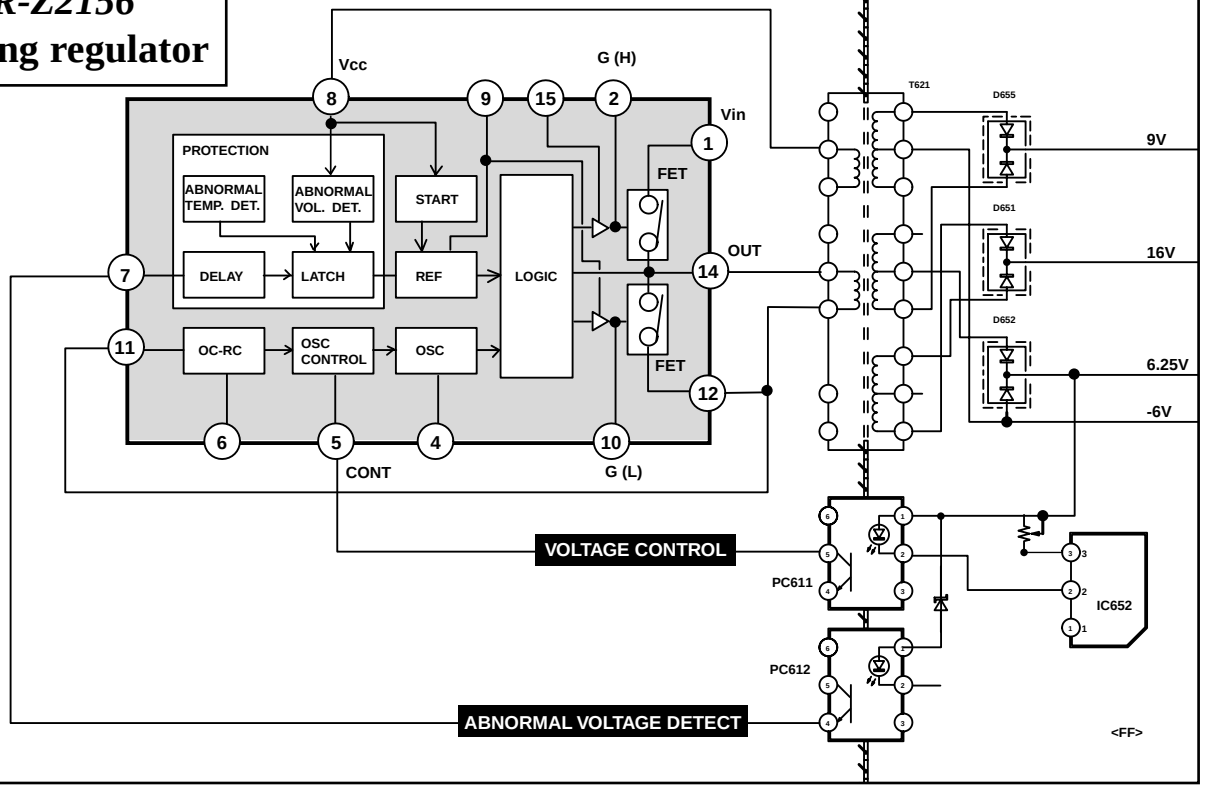
352 pin PBGA Package



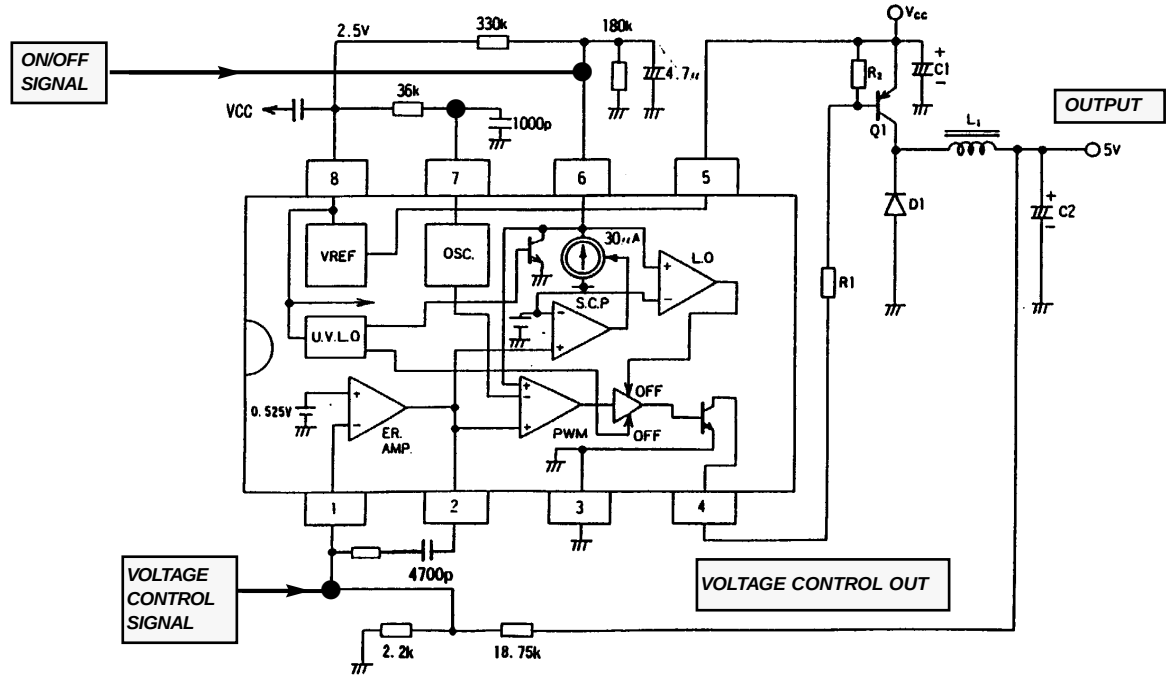
Features;

* Second-generation Image Scaling
* Second-generation Automatic Image Optimization
* Color Space Converter for graphics inputs
* Video processing
* Picture-in-Picture
* Frame rate conversion
* Multi-region, non-linear scaling

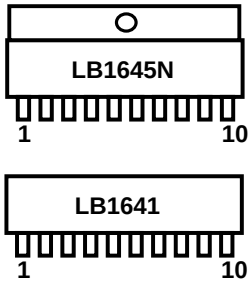
STR-Z2156
Switching regulator

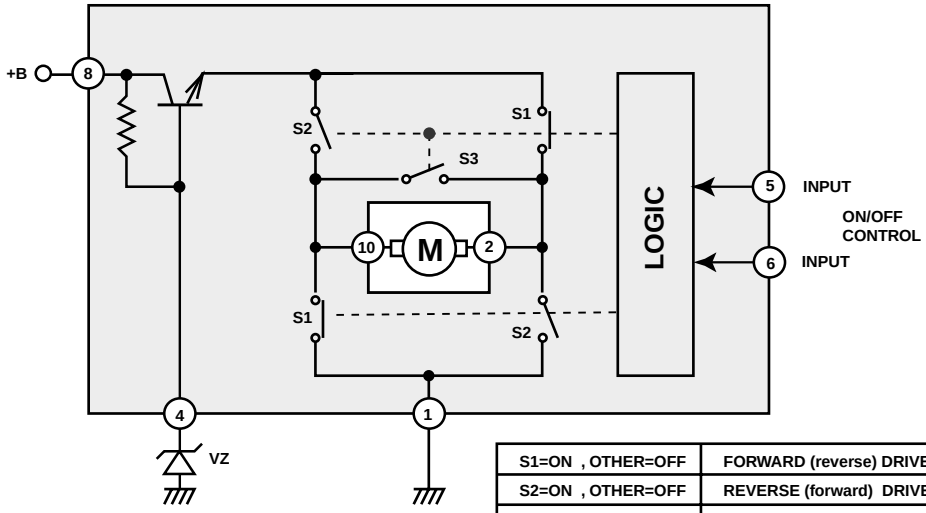


FA7612CN PWM POWER CONTROL



LB1641/1645N
MOTOR DRIVER



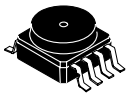


S1=ON , OTHER=OFF	FORWARD (reverse) DRIVE
S2=ON , OTHER=OFF	REVERSE (forward) DRIVE
S3=ON , OTHER=OFF	BRAKING

<FF>

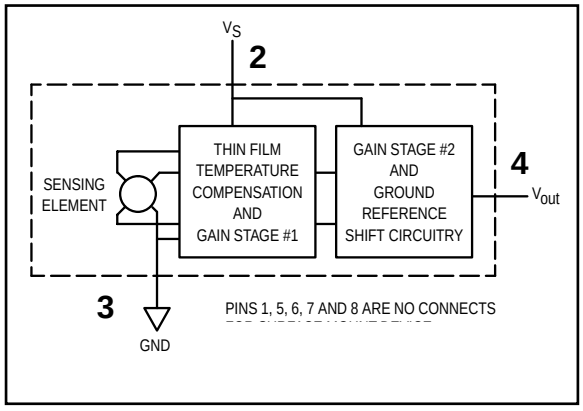
MPXA4115A
Pressure sensor for altimeter

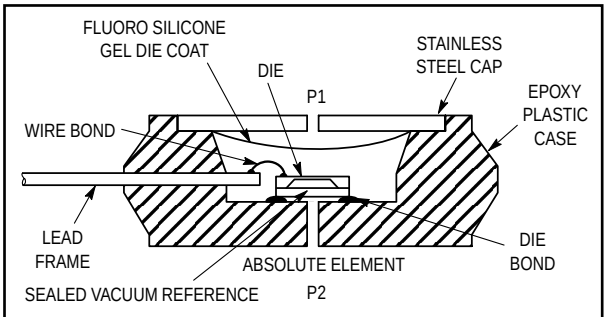
SMALL OUTLINE
PACKAGE



PPXA4115A
CASE 482–01

<FF>

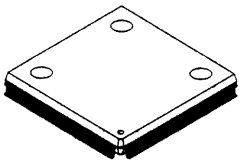


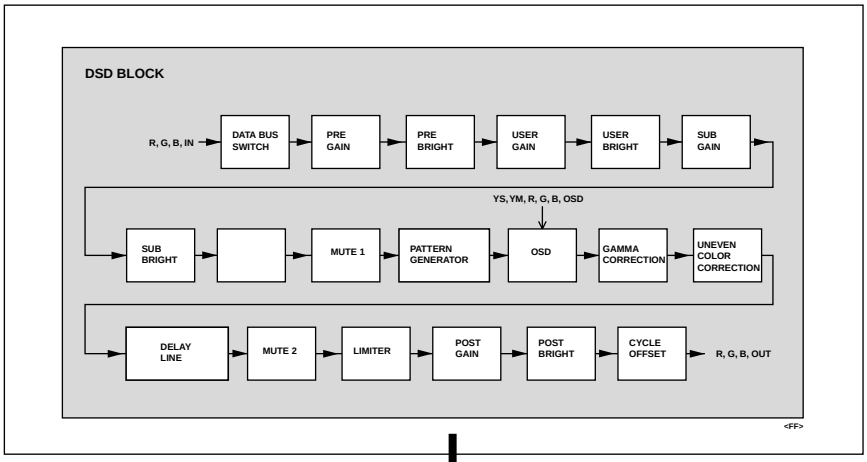


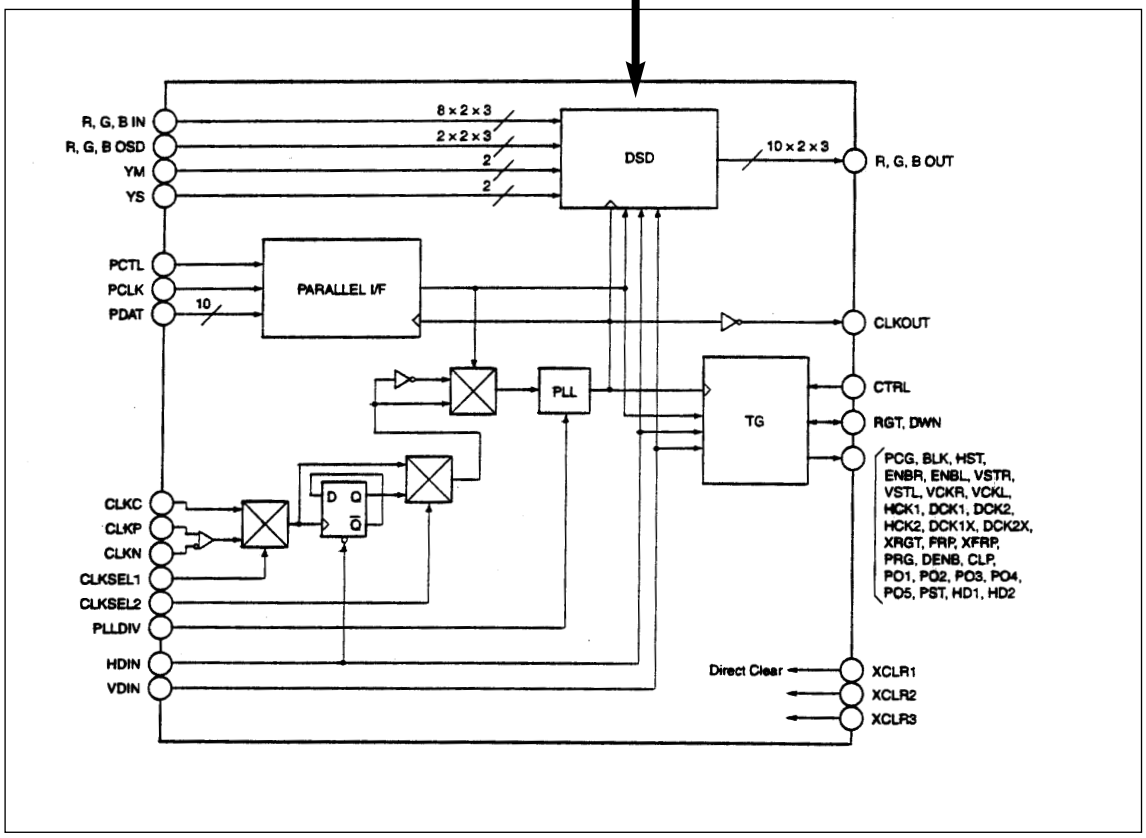
Cross Sectional Diagram

CXD3511Q DIGITAL SIGNAL DRIVER

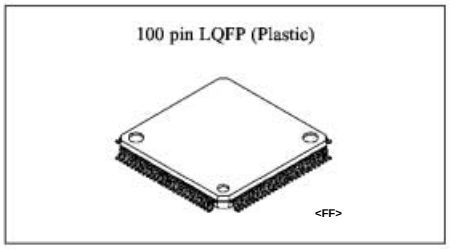
240 pin QFP (Plastic)

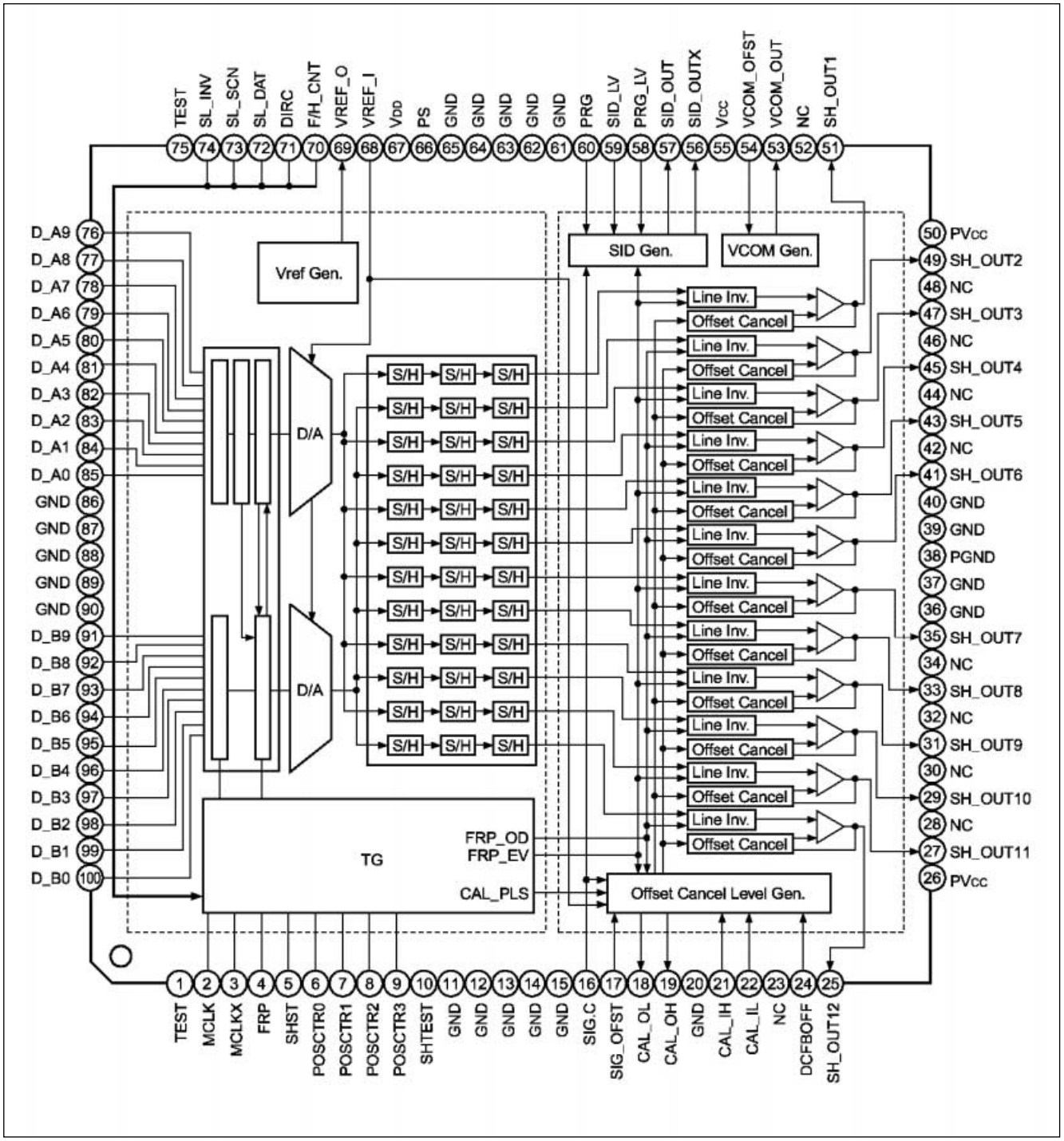






CXA3562R
LCD DRIVER





Parts List

⚠ Caution : Safety significant parts.

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark (⚠) in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of the parts must be made by exactly the same parts.

Note : Don't collate parts with schematic diagrams. Be sure to collate with parts list.

The design of this product is under constant review. Therefor specifications are subject to change for improvement. And whilst every effort is made to keep this service manual up to date, part specifications may be different between schematic diagrams and parts list. In the case of this service manual, part specifications in the parts list are the latest data.

Part order must contain chassis number, part number and descriptions.

■ Readjustments after parts replacement.

-- Assembly main --

■ **When it is replaced with new one, the memory ICs should be returned.**

The memory ICs IC871 and IC1181 on the assembly main memorize the adjusted data, the lamp illumination time data, the set data, etc. for this projector. When the assembly main is replaced with new one, the IC871 and IC1181 which have memorized each data should be installed to new assembly main from damaged assembly main. Then this projector can maintain the former state, and readjusting is unnecessary.

⚠ Caution :

If the IC871 and IC1181 are not replaced, lamp illumination time starts from an initial value compulsorily. You can not set the value of the previous lamp illumination time. Therefore, when the useful life of the lamp passes, the LAMP REPLACE indicator do not light. It will have been using the lamp over which the useful life passed. It may cause the burst of the lamp. If you do not replace the memory ICs, we recommend to replace the assembly lamp a little early.

■ **About the following case, readjusting is needed:**

* When the component parts on the assembly main are replaced:
* When the IC871 and IC1181 are not replaced after replacing the assembly main:

Readjust the following adjustment items.

05. Fans driving voltage adjustments
06. Video center DC adjustments
07. NRS signal adjustments
08. PC contrast adjustments-1
09. AV contrast adjustments-2
10. Panel driving signal adjustments -AV
11. Panel driving signal adjustments -PC
12. Flicker reduction.
13. White balance adjustments
14. Unevenness color correction

-- Integrator-lens-out and prism-PBS --

■ When the integrator-lens-out and prism-PBS are replaced.

* Readjust the following adjustment item.
  Integrator-lens-out adjustment
  Prism-P.B.S. adjustment

Terminal board:

Some of the Terminal boards are optional. Factory set of terminal board is different by projector models. See "Input jacks" of specifications on page-2.

-- Assembly AV -- (Terminal board AV)

■ When it is replaced with new one :

* Factory adjustments of the new assembly AV have completed. Readjusting is unnecessary.

■ When the component parts of assembly AV are replaced :

* Readjust the following adjustment items.
  2. AV Video signal adjustments
  3. 3DNR-PLL Lock check
  4. AV Color and Tint adjustments

-- Assembly component -- (Terminal board 5-BNC)

■ Readjusting is unnecessary.

-- Assembly DVI -- (Terminal board DVI)

■ Readjusting is unnecessary.

-- Assembly D-SUB15 -- (Terminal board D-SUB15)

■ Readjusting is unnecessary.

-- Assembly Power --

■ When it is replaced with new one. :

* Factory adjustment of the new assembly power has completed. Readjusting is unnecessary.

■ When the component parts of assembly-power are replaced. :

* Readjust the following adjustment item.

1. DC voltage adjustment.

-- Unit-lamp-ballast --

■ In case this unit is fault, replace the unit completely, do not replace the individual component. Readjusting is unnecessary.

-- Unit-PFC. --

■ In case this unit is fault, replace the unit completely, do not replace the individual component. Readjusting is unnecessary.

-- Relay-lens --

■ When the relay-lens is replaced.

* Readjust the following adjustment item.
  Relay-lens adjustment

-- R-Filter --

■ When the R-Filter is replaced.

* Readjust the following adjustment item.
  R-Filter adjustment

-- Polarizers and filters--

(Part no. 115~122.)

■ When the polarizers and filters are replaced.

* Readjust the following adjustment item.

Polarizer (and optical filter) adjustment

-- Assembly Sub power -- *

■ In case this unit is fault, replace the unit completely, do not replace the individual component.

* Readjust the following adjustment item.

5. Fans driving voltage adjustments

-- The component parts inside the optical unit --

(Part no. 102, 106~111, 114, and 123~124.)

■ When the optical component parts inside the optical unit are replaced.

* Check the following adjustment items.

Integrator-lens-out adjustment
Integrator-lens-in adjustment
R-Filter adjustment
Relay-lens adjustment
Prism-P.B.S. adjustment
Polarizer adjustment

-- Integrator-lens-in --

■ When the integrator-lens-in is replaced.

* Readjust the following adjustment items.

Integrator-lens-in adjustment

-- LCD panel /Prism assembly or LCD-panel ---

When the LCD panel /Prism assembly or the LCD-panel is replaced with new one, readjust the following adjustment items.

*** Focus adjustment of LCD Panel**
*** Convergence adjustment of LCD Panel**
*** 12. Flicker reduction**
*** 13. White balance adjustments**
*** 14. Unevenness color correction**

But when the whole LCD panel /prism assembly is replaced with new one, readjusting of "Convergence adjustment of LCD Panel" is unnecessary. *(Factory Convergence adjustment of LCD Panel for new LCD panel /prism assembly has completed.)*

Read description in the Capacitor and Resister as follows:

CAPACITOR
CERAMIC 100P K 50V

Rated Voltage

Rated value: P=Pico farad, U=Micro farad

Material :	
CERAMIC	Temperature compensating ceramic High dielectric rate ceramic Semiconductor ceramic
MT-PAPER	Metallized paper
POLYESTER	Polyester
MT-POLYEST	Metallized polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized composite film
STYRENE	Styrol
TA-SOLID	Tantalum oxide solid electrolytic
AL-SOLID	Aluminum solid electrolytic
ELECT	Aluminum foil electrolytic
NP-ELECT	Non-polarized electrolytic
OS-SOLID	Aluminum solid capacitors with organic semiconductive electrolyte
POS-SOLID	Polymerized organic semiconductor
DL-ELECT	Electric double layer electrolytic
AL-SOLID	Aluminum manganese wind solid
PPS-FILM	Polyphenylene sulfide film
MT-PPS-FILM	Metallized Polyphenylene sulfide film
MT-PEN-FILM	Metallized polyethylenenaphthalate film
EP-ELECT	Electric Conductor Polymerized Aluminum foil electrolytic
CAPACITOR	Other

Tolerance Symbols	
Static capacitance of 10PF or less	
A:	Nondesignated
B:	±0.1PF
C:	±0.25PF
D:	±0.5PF
F:	±1PF
G:	±2PF
H:	+0.1 ~ -0PF
L:	+0 ~ -0.1PF
R:	+0.25 ~ -0PF
S:	+0 ~ -0.25PF
E:	+0 ~ -1PF
J:	±5%
K:	±10%
M:	±20%
Note: J. K. and M are used only for tubular Ceramic Capacitors	
Static capacitance of more than 10PF	
A:	Nondesignated
B:	±0.1%
C:	±0.25%
D:	±0.5%
F:	±1%
G:	±2%
E:	±2.5%
H:	±3%
J :	±5%
K:	±10%
L :	±15%
M:	±20%
N:	±30%
P:	+100 ~ -0%
Q:	+30 ~ -10%
R:	+20 ~ -0%
T:	+50 ~ -10%
U:	+75 ~ -10%
V:	+20 ~ -10%
W:	+100 ~ -10%
X:	+40 ~ -20%
Y:	+150 ~ -10%
Z:	+80 ~ -20%

FIXED RESISTER
CARBON 4.7K J A 1/4W

Rated Wattage

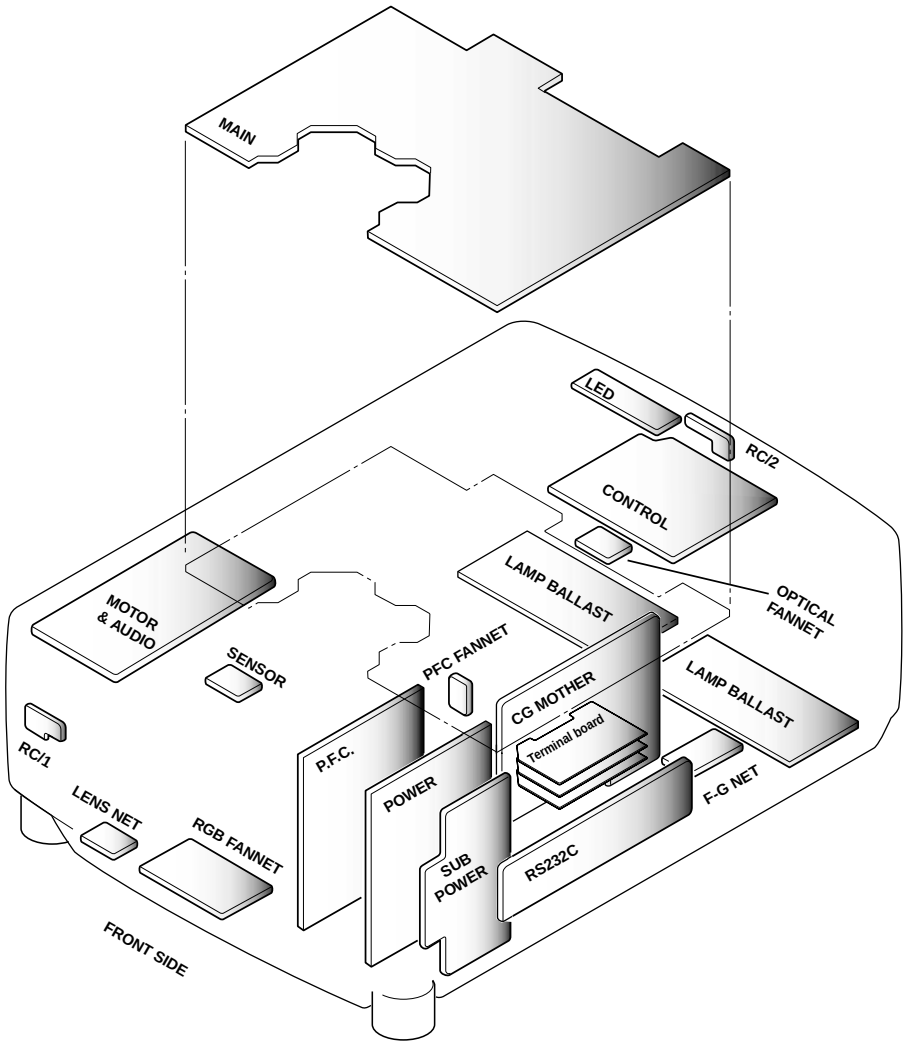
Performance Symbols:	
A:	General
B:	Flame retardance (including noncombustible)
Z:	Low noise (Less than 100Kohms : 0.3uV/V, 100Kohms to 1Mohm : 0.5uV/V, More than 1Mohm : 1.0uV/V)
C~Y :	Temperature characteristics
T:	±10ppm/˚C
U:	±25ppm/˚C
C:	±50ppm/˚C
D:	±100ppm/˚C
E:	±200ppm/˚C
F:	±250ppm/˚C
G:	±350ppm/˚C
H:	±1000ppm/˚C±10%
W:	±1200ppm/˚C±10%
Y:	±1400ppm/˚C±10%
J:	±2000ppm/˚C±10%
K:	±2400ppm/˚C±10%
L:	±2700ppm/˚C±10%
M:	±3000ppm/˚C±10%
N:	±3300ppm/˚C±10%
P:	±3600ppm/˚C±10%
Q:	±3900ppm/˚C±10%
R:	±4200ppm/˚C±10%
S:	±4300ppm/˚C±10%
V:	±4500ppm/˚C±10%
X:	±800ppm/˚C±150ppm/˚C
O:	+500ppm/˚C ~ -250ppm/˚C

Tolerance Symbols:	
A:	±0.05%
B:	±0.1%
C:	±0.25%
D:	±0.5%
F:	±1%
G:	±2%
J:	±5%
K:	±10%
M:	±20%
P:	+5 ~-15%
Z:	Use when 0 ohm

Rated value, ohms : K: X1,000 ohms. M: X1,000,000 ohms

Material :	
CARBON	Carbon film fixed
MT-FILM	Metal film fixed
OXIDE-MT	Metal oxide film fixed
SOLID	Solid
MT-GLAZE	Metal glaze type fixed
WIRE WOUND	power type covered wiring fixed
CERAMIC RES	Ceramic fixed
FUSIBLE RES	Fusible
RESISTER	Used for "others"

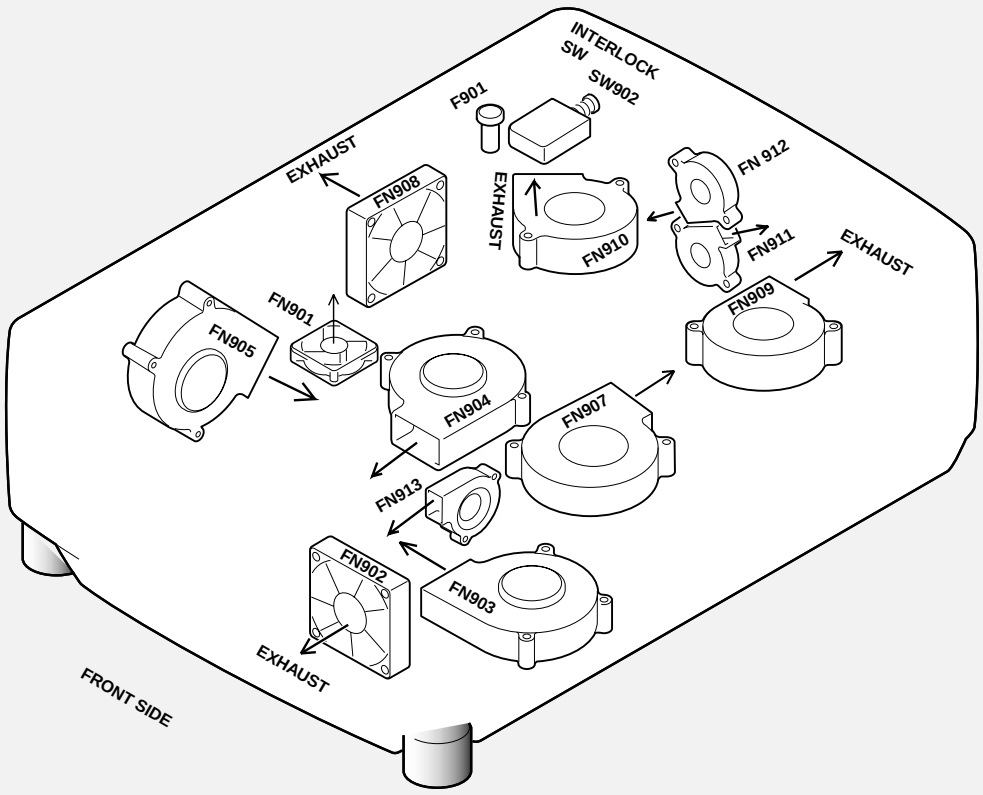
Note :
1. "General" (symbol A) means properties for which there are some differences among manufacturers but which can be used when within the range given in the catalogs.
2. Parts for which temperature characteristics are especially designated (required) due to design are indicated by "temperature characteristic classifications" (symbol C to Y). Others are indicated by "General" (symbol A).
3. What are called "cement resistors" are noncombustible, so are indicated as "General"(symbol A), not "Flame retardant (including noncombustible)"(symbol B)



PWB ASSEMBLIES LOCATION

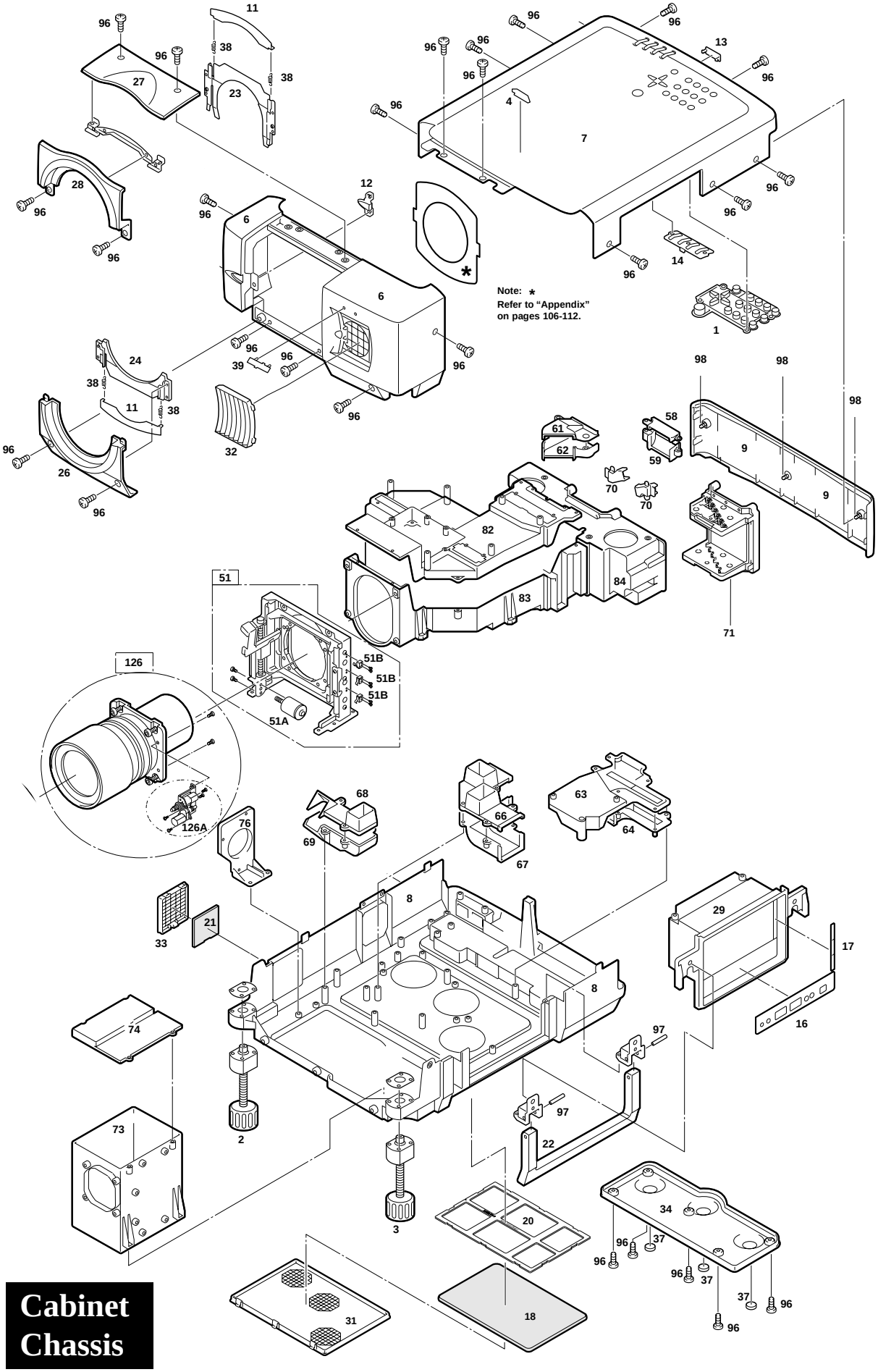
Caution ; The following caution is the important matter for maintaining the safety of a product.

Don't mistake the attachment direction of the cooling fan in the case of a re-assembly. If the attachment direction is mistaken, it will become the cause which the inside of the projector is unusually overheated and a fire or parts damage.

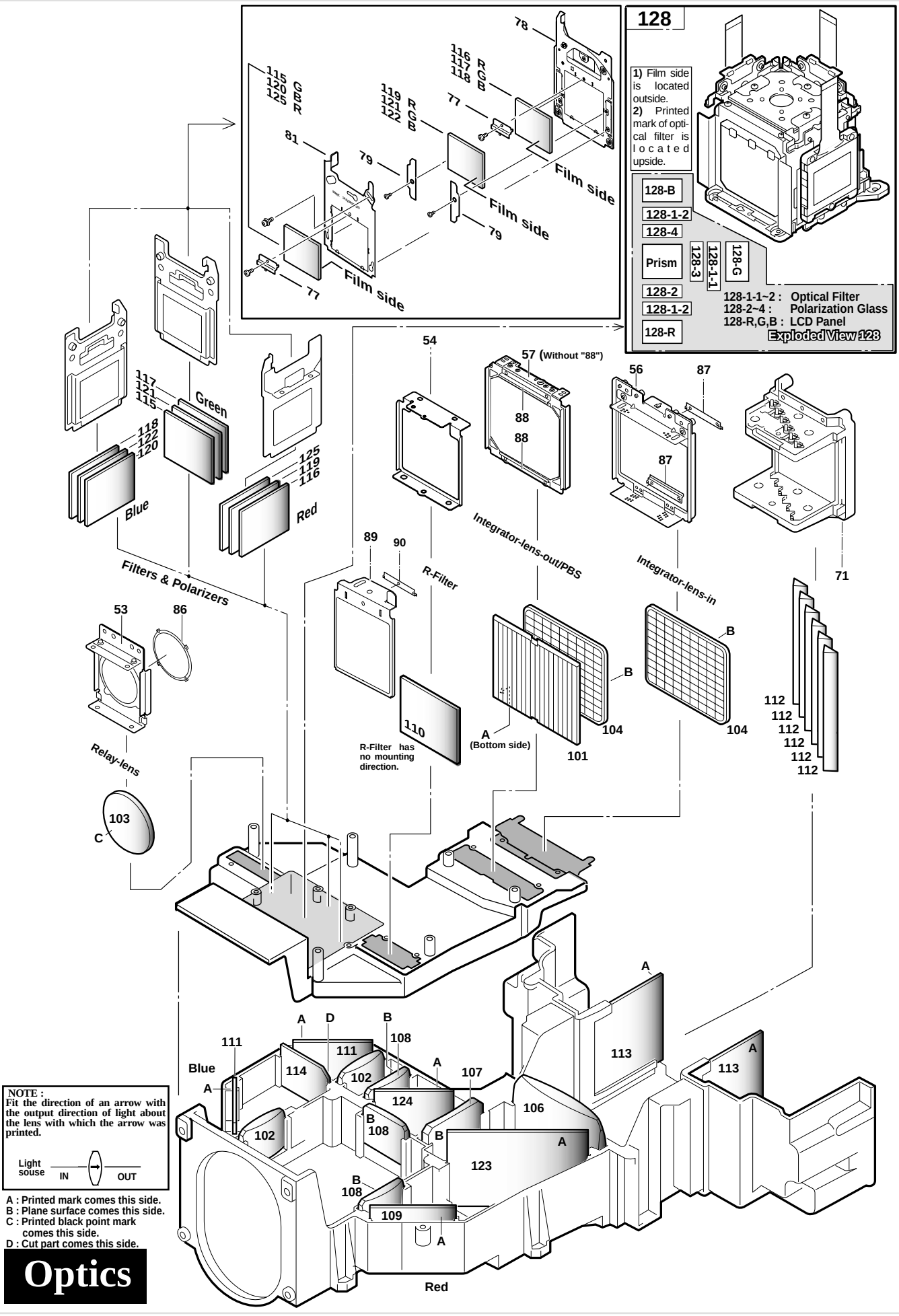


←——— :Direction of a wind.

MOTOR FANS LOCATION



Cabinet Chassis


128
1) Film side is located outside.
2) Printed mark of optical filter is located upside.
128-B
128-1-2
128-4
Prism
128-3
128-1-1
128-G
128-2
128-1-2
128-R
128-1-1~2 : Optical Filter
128-2~4 : Polarization Glass
128-R,G,B : LCD Panel
Exploded View 128
Film side
Green
Blue
Red
Filters & Polarizers
R-Filter
R-Filter has no mounting direction.
Integrator-lens-out/PBS
Integrator-lens-in
Relay-lens
(Bottom side)
(Without "88")
NOTE :
Fit the direction of an arrow with the output direction of light about the lens with which the arrow was printed.
Light souse
IN
OUT
A : Printed mark comes this side.
B : Plane surface comes this side.
C : Printed black point mark comes this side.
D : Cut part comes this side.
Optics

Ref. No.	Part No.	Description

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CABINET PARTS 005M4RA

1.	610 313 1122	ASSY,BUTTON-M4RA
2.	610 292 8716	ASSY,STAND LEG A-MV6B
3.	610 292 8723	ASSY,STAND LEG B-MV6B
4.	610 289 1829	BADGE V MARK L-ML6A
6.	610 295 2629	CABINET FRONT-M4RA
7.	610 313 1191	CABINET TOP-M4RA
8.	610 313 1214	CABINET BOTTOM-M4RA
9.	610 313 1245	COVER,LMP-M4RA
11.	610 290 9241	COVER LNS A-MV6A
12.	610 312 5862	DEC INLAY R/C-MV6A
14.	610 312 5879	DEC INLAY REAR-MV6A
16.	610 309 3840	DEC COMP SHEET B-MV6B
17.	610 292 8877	DEC COMP SHEET B-MV6B
18.	610 292 3162	FILTER NET A-MV6A
20.	610 294 9544	FILTER COVER-MV6A
21.	610 292 3186	FILTER NET C-MV6A
22.	610 313 1276	HANDLE-M4RA
23.	610 290 9364	MOUNTING COVER LNS A-MV6A
24.	610 290 9371	MOUNTING COVER LNS B-MV6A
26.	610 294 0749	PANEL FRONT BTM-M4RA
27.	610 294 0756	PANEL FRONT TOP-M4RA
28.	610 294 1180	PANEL FRONT MID-M4RA
29.	610 313 1672	PANEL COMP A-M4RA
31.	610 313 1283	PANEL FILTER A-M4RA
32.	610 294 1210	PANEL FILTER B-M4RA
33.	610 313 1290	PANEL FILTER C-M4RA
34.	610 313 1306	PANEL BLST A-M4RA
37.	610 289 3359	STAND LEG CT-ML6B
38.	610 272 9238	SPRING COIL-M6MA
39.	645 032 6400	BADGE,SANYO*43.5X10L43.5

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CHASSIS PARTS 006M4RA

51.	610 303 9268	ASSY,HOLDER LNS A-MY8A
		(Including " * ")
* 51-A.	645 057 5884	ASSY,MOTOR(MY8A)
* 51-B.	645 057 5914	SWITCH,SENSOR Z
53.	610 290 5328	COMPL,HOLDER REL A-MV6A
54.	610 311 3562	HOLDER RF-M4RK
56.	610 311 0707	COMPL,HOLDER INT A-M4RK
57.	610 293 8135	COMPL,HOLDER PBS A-MY6A
58.	610 304 0363	COVER DUCT TOP A-MV6A-A
59.	610 304 0370	COVER DUCT BTM A-MV6A-A
61.	610 304 0387	COVER DUCT TOP B-MV6A-A
62.	610 304 0394	COVER DUCT BTM B-MV6A-A
63.	610 301 9369	COVER DUCT TOP C-MV6A-A
64.	610 303 9718	COVER DUCT BTM C-MV6A-A
66.	610 292 4411	COVER DUCT TOP D-MV6A
67.	610 292 4428	COVER DUCT BTM D-MV6A
68.	610 292 4435	COVER DUCT TOP E-MV6A
69.	610 292 4442	COVER DUCT BTM E-MV6A
70.	610 302 3809	COVER,DUCT LMP A-MY8A
71.	610 309 0887	COMPL,MOUNTING PRM MR-ME7
73.	610 302 1485	HOLDER POWER PWB BTM-MV6A
74.	610 292 4466	HOLDER POWER PWB TOP-MV6A
76.	610 293 4335	HOLDER FN C-MV6A
77.	610 282 7996	MOUNTING PLT A-MJ6A
78.	610 311 3111	COMPL,HOLDER POL A-M4RK
79.	610 295 5040	MOUNTING PLT A-MJ6A
81.	610 311 3579	HOLDER WV IN A-M4RK
82.	610 303 7547	OPTICAL BASE TOP-MY6A-A
83.	610 301 5613	OPTICAL BASE BTM A-MY8A
84.	610 303 1941	OPTICAL BASE BTM B-MV6A-A
86.	610 290 5373	HOLDER REL D-MV6A
87.	610 311 3197	HOLDER INT D-M4RK
88.	610 290 5397	HOLDER PBS D-MV6A
89.	610 311 3623	MOUNTING RF A-M4RK
90.	610 311 3609	MOUNTING RF B-M4RK

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SCREWS 010MY6B

96.	411 002 1108	SCR BIN 4X8
97.	411 182 6207	PIN PARALLEL 5X35
98.	412 063 3308	SPECIAL SCREW

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OPTICAL PARTS 014M4RK

101.	645 046 1323	ASSY,PRISM(PBS)
101.	645 046 1330	ASSY,PRISM(PBS)
102.	645 046 9459	LENS,RELAY(IN)
103.	645 046 9466	LENS,RELAY(OUT)
104.	645 063 1627	LENS,INTEGRATOR
106.	645 063 1658	LENS,CONDENSER 1
107.	--- --- ----	Not Used
108.	645 051 1431	LENS,CONDENSER
109.	645 046 1361	MIRROR(RH)
110.	645 064 8717	OPTICAL FILTER
112.	645 063 1665	MIRROR(COLD)
111.	645 046 1378	MIRROR(B-COLD)
113.	645 046 1392	OPTICAL FILTER(UV/IR)
114.	645 055 0591	OPTICAL FILTER(UV CUT)
115.	645 064 9400	OPTICAL FILTER (WV/IN)RG
116.	645 041 2837	POLARIZATION GLASS(HIN/R)
117.	645 041 2882	POLARIZATION GLASS(HIN/G)
118.	645 054 8512	POLARIZATION GLASS(HIN/B)
119.	645 064 9141	POLARIZATION GLASS(IN/R)
120.	--- --- ----	Not Used
121.	645 063 8152	POLARIZATION GLASS(IN/G)P
122.	645 063 1832	POLARIZATION GLASS(IN/B)
123.	645 063 1764	DICHROIC MIRROR (C)
124.	645 063 1597	DICHROIC MIRROR (Y)
125.	645 067 2033	OPTICAL FILTER (RG/IN)-2
126.	--- --- ----	Optional : See appendix on page 106.
128.	610 309 3550	ASSY,LCD PRISM-M4RK
		(Including " * ")
* 128-1-1	645 064 9455	OPTICAL FILTER (WV/OUT)G
* 128-1-2	645 064 9448	OPTICAL FILTER (WV/OUT)RB
* 128-2	645 064 9158	POLARIZATION GLASS(OUT/R)
* 128-3	645 063 8169	POLARIZATION GLASS(OUT/G)P
* 128-4	645 063 1849	POLARIZATION GLASS(OUT/B)
* 128-R	645 061 9595	LCD(L3D12X-35G02R)
* 128-G	645 061 9601	LCD(L3D12X-35G02G)
* 128-B	645 061 9618	LCD(L3D12X-35G02B)

Convergence Adjustment Tool " Convergence Adjuster "

610 304 8208 ASSY,CG ADJUST LCD-MT8A

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Ref. No.	Part No.	Description

■ Out of PWB Assembly

	COIL		
⚠	LF901	645 054 3227	UNIT,NOISE FILTER
	L901	645 050 8417	CORE,CLAMP
		645 044 3817	CORE,CLAMP
	L902	645 050 8417	CORE,CLAMP
		645 044 3817	CORE,CLAMP
	L903	645 050 8417	CORE,CLAMP
		645 044 3817	CORE,CLAMP
	L904	645 050 8417	CORE,CLAMP
		645 044 3817	CORE,CLAMP
	L905	645 050 8417	CORE,CLAMP
		645 044 3817	CORE,CLAMP
	L906	645 050 8417	CORE,CLAMP
	L907	645 050 8417	CORE,CLAMP
	L908	645 050 8417	CORE,CLAMP
	L909	645 050 8417	CORE,CLAMP
	MISCELLANEOUS		
⚠	FN901	645 047 9120	MOTOR,FAN DC 1.68W
⚠	FN902	645 041 7542	MOTOR,FAN DC 1.68W
⚠	FN903	645 061 7539	MOTOR,FAN DC 13.0W
⚠	FN904	645 061 7539	MOTOR,FAN DC 13.0W
⚠	FN905	645 064 8687	MOTOR,FAN DC 14.9W
⚠	FN907	645 049 0200	MOTOR,FAN DC 6.4W
⚠	FN908	645 042 7787	MOTOR,FAN DC 1.68W
⚠	FN909	645 054 4149	MOTOR,FAN DC 6.24W
⚠	FN910	645 054 4149	MOTOR,FAN DC 6.24W
⚠	FN911	645 047 9274	MOTOR,FAN DC 1.68W
⚠	FN912	645 047 9274	MOTOR,FAN DC 1.68W
⚠	FN913	645 051 9970	MOTOR,FAN DC 1.92W
⚠	F901	423 027 2602	FUSE 250V 10A
⚠	F901A	645 061 4408	HOLDER,FUSE
	R901	401 011 7208	CARBON 820K JA 1/2W
	SP901	610 055 5471	SPEAKER
	SP902	610 055 5471	SPEAKER
	SW901	645 047 0400	SWITCH,POWER 2P-2TX2
	SW902	645 031 7743	SWITCH,PUSH 2P-2TX2
	SW902AS	645 024 9280	TERMINAL,SOCKET 1P
	SW902BS	645 024 9280	TERMINAL,SOCKET 1P
	SW902CS	645 024 9280	TERMINAL,SOCKET 1P
	SW902DS	645 024 9280	TERMINAL,SOCKET 1P
⚠	SW903	645 043 7335	SWITCH,REED
⚠	SW904	645 039 7301	SWITCH,REED
	WK2B-K90	610 287 1005	CORD,SHIELD 1P
	WK2G-K90	610 287 0992	CORD,SHIELD 1P
	WK2R-K90	610 287 0985	CORD,SHIELD 1P
	W901	610 273 1774	CORD,ID-CONNECTOR M6MA
	W902	610 304 9199	CORD,SHIELD 40P(GRAY)
	W903	610 304 9205	CORD,SHIELD 40P(BLACK)
	W904	610 305 9822	CABLE,LAMP
	W905	610 305 9822	CABLE,LAMP

* **Assembly Lamp**

⚠	LP901	610 309 3802	COMPL,OPTICAL LAMP-M4RK
⚠	LP902	610 309 3802	COMPL,OPTICAL LAMP-M4RK

* **LCD Panel**

About the LCD Panel, see optical parts list on page 73.

■ Assembly PWB PFC

⚠	PFC1	645 053 2023	UNIT,POWER

■ Assembly PWB Lamp Ballast

⚠	BALAST1	645 064 7963	UNIT,BALLAST
⚠	BALAST2	645 064 7963	UNIT,BALLAST

■ Assembly PWB Subpower

	A901	645 064 9332	UNIT,POWER

Ref. No.	Part No.	Description

■ Assembly PWB for " Terminal board DVI "

		610 290 6059	**ASSY,PWB,DVI MV6A**
	TRANSISTOR		
	Q8041	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8051	405 014 4509	TR 2SC2412K T146 R
	Q8061	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8071	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8081	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8091	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8101	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	Q8102	405 014 4509	TR 2SC2412K T146 R
		405 014 4608	TR 2SC2412K T146 S
		405 015 8704	TR 2SC2812-L6-TB
		405 015 8902	TR 2SC2812-L7-TB
		405 163 1602	TR 2SC2812N-L6-TB0
		405 163 1701	TR 2SC2812N-L7-TB0
		405 173 9803	TR 2SC3928A1R
		405 173 9902	TR 2SC3928A1S
	INTEGRATED CIRCUIT		
	IC8001	410 365 2203	IC SII161ACT100
	IC8015	409 462 2308	IC TC7SZ04FU-TE852
	IC8016	409 462 2308	IC TC7SZ04FU-TE852
	IC8017	409 462 2308	IC TC7SZ04FU-TE852
	IC8020	410 391 2109	IC TC74VCX374FT(EL)
	IC8021	409 484 2003	IC BA7078AF-E2
	IC8031	410 343 7008	IC SN74AHCT1G14DBVR
	IC8032	410 343 7008	IC SN74AHCT1G14DBVR
	IC8033	410 343 7008	IC SN74AHCT1G14DBVR
	IC8041	409 441 8406	IC LA7217M-T-TRM
	IC8051	409 445 7306	IC QS3125QX
	IC8061	409 461 7304	IC AD8057ART
	IC8062	409 461 7304	IC AD8057ART
	IC8063	409 461 7304	IC AD8057ART
	IC8064	410 343 7008	IC SN74AHCT1G14DBVR
	IC8065	410 343 7008	IC SN74AHCT1G14DBVR
	IC8071	410 401 7506	IC TC74VCX16374FT
	IC8072	410 401 7506	IC TC74VCX16374FT

Electrical Parts List

Ref. No.	Part No.	Description
IC8073	410 401 7506	IC TC74VCX16374FT
IC8141	409 380 6303	IC HIN232CB
	409 273 3501	IC SP232ACT
IC8151	410 296 5700	IC TWM7000-151020
IC8152	410 275 5707	IC TWM7000-162020
	410 275 5806	IC TWM7000-162020
IC8161	409 152 5404	IC TC7S08F-TE85L
IC8171	409 395 5902	IC TC7SH00FU-(TE85L)
IC8172	409 416 6505	IC BA05FP-E2
IC8181	409 404 6302	IC M62320FP
IC8182	409 404 6302	IC M62320FP
IC8191	409 505 6102	IC MD1222N
IC8193	409 487 5803	IC 24C01CT/SN
IC8194	409 434 8109	IC TC4053BFT-(EL)
CAPACITOR		
C8002	403 164 0204	CERAMIC 0.1U Z 25V
C8003	403 280 0508	ELECT 470U M 4V
C8004	403 164 0204	CERAMIC 0.1U Z 25V
C8005	403 157 3601	CERAMIC 100P J 50V
C8006	403 157 3601	CERAMIC 100P J 50V
C8007	403 157 3601	CERAMIC 100P J 50V
C8008	403 157 3601	CERAMIC 100P J 50V
C8009	403 164 0204	CERAMIC 0.1U Z 25V
C8010	403 164 0204	CERAMIC 0.1U Z 25V
C8012	403 157 3601	CERAMIC 100P J 50V
C8013	403 280 0508	ELECT 470U M 4V
C8014	403 164 0204	CERAMIC 0.1U Z 25V
C8015	403 155 1500	CERAMIC 180P J 50V
C8016	403 169 2807	CERAMIC 330P J 50V
C8017	403 169 2807	CERAMIC 330P J 50V
C8018	403 155 1500	CERAMIC 180P J 50V
C8019	403 169 2807	CERAMIC 330P J 50V
C8021	403 169 2807	CERAMIC 330P J 50V
C8022	403 155 1500	CERAMIC 180P J 50V
C8023	403 164 0204	CERAMIC 0.1U Z 25V
C8024	403 280 0508	ELECT 470U M 4V
C8025	403 169 2807	CERAMIC 330P J 50V
C8026	403 267 0606	NP-ELECT 4.7U M 16V
C8028	403 266 6807	NP-ELECT 0.1U M 50V
C8029	403 162 6208	ELECT 1U M 50V
C8030	403 164 0204	CERAMIC 0.1U Z 25V
C8032	403 266 8108	NP-ELECT 1U M 50V
C8033	403 162 6604	ELECT 2.2U M 50V
C8034	403 162 6208	ELECT 1U M 50V
C8035	403 157 3601	CERAMIC 100P J 50V
C8036	403 164 0204	CERAMIC 0.1U Z 25V
C8037	403 280 0805	ELECT 330U M 6.3V
C8038	403 164 0204	CERAMIC 0.1U Z 25V
C8043	403 164 0204	CERAMIC 0.1U Z 25V
C8044	403 266 8108	NP-ELECT 1U M 50V
C8045	403 308 2101	CERAMIC 0.056U K 16V
C8046	403 215 2904	CERAMIC 0.022U K 25V
C8047	403 157 6909	CERAMIC 820P K 50V
C8048	403 215 2201	CERAMIC 0.01U K 50V
C8049	403 162 6208	ELECT 1U M 50V
C8050	403 164 0204	CERAMIC 0.1U Z 25V
C8052	403 164 0204	CERAMIC 0.1U Z 25V
C8053	403 164 0204	CERAMIC 0.1U Z 25V
C8061	403 164 0204	CERAMIC 0.1U Z 25V
C8063	403 164 0204	CERAMIC 0.1U Z 25V
C8064	403 157 1904	CERAMIC 10P D 50V
C8065	403 157 3106	CERAMIC 56P J 50V
C8070	403 280 0508	ELECT 470U M 4V
C8072	403 157 1904	CERAMIC 10P D 50V
C8073	403 164 0204	CERAMIC 0.1U Z 25V
C8075	403 157 3106	CERAMIC 56P J 50V
C8076	403 164 0204	CERAMIC 0.1U Z 25V
C8077	403 164 0204	CERAMIC 0.1U Z 25V
C8079	403 164 0204	CERAMIC 0.1U Z 25V
C8082	403 157 1904	CERAMIC 10P D 50V
C8085	403 157 3106	CERAMIC 56P J 50V
C8086	403 164 0204	CERAMIC 0.1U Z 25V
C8088	403 164 0204	CERAMIC 0.1U Z 25V
C8090	403 347 5507	POS-SOLID 470U M 4V
C8091	403 162 4709	ELECT 10U M 16V
C8092	403 162 4709	ELECT 10U M 16V
C8093	403 155 1500	CERAMIC 180P J 50V
C8094	403 146 0505	CERAMIC 1200P K 50V
C8096	403 347 5507	POS-SOLID 470U M 4V
C8101	403 162 4709	ELECT 10U M 16V
C8102	403 162 4709	ELECT 10U M 16V
C8103	403 280 1604	ELECT 220U M 16V
C8104	403 164 0204	CERAMIC 0.1U Z 25V

Ref. No.	Part No.	Description
C8132	403 283 6309	CERAMIC 1U Z 10V
C8133	403 164 0204	CERAMIC 0.1U Z 25V
C8141	403 175 4505	ELECT 47U M 6.3V
C8142	403 162 6208	ELECT 1U M 50V
C8143	403 162 6208	ELECT 1U M 50V
C8144	403 162 6208	ELECT 1U M 50V
C8145	403 162 6208	ELECT 1U M 50V
C8151	403 162 6208	ELECT 1U M 50V
C8152	403 164 0204	CERAMIC 0.1U Z 25V
C8153	403 280 0805	ELECT 330U M 6.3V
C8154	403 164 0204	CERAMIC 0.1U Z 25V
C8156	403 164 0204	CERAMIC 0.1U Z 25V
C8157	403 175 4505	ELECT 47U M 6.3V
C8158	403 164 0204	CERAMIC 0.1U Z 25V
C8171	403 280 0805	ELECT 330U M 6.3V
C8172	403 164 0204	CERAMIC 0.1U Z 25V
C8175	403 164 0204	CERAMIC 0.1U Z 25V
C8176	403 280 0805	ELECT 330U M 6.3V
C8177	403 164 0204	CERAMIC 0.1U Z 25V
C8178	403 280 0805	ELECT 330U M 6.3V
C8181	403 164 0204	CERAMIC 0.1U Z 25V
C8182	403 164 0204	CERAMIC 0.1U Z 25V
C8190	403 164 0204	CERAMIC 0.1U Z 25V
C8191	403 205 2808	CERAMIC 0.047U K 25V
C8192	403 113 3805	CERAMIC 1000P K 50V
C8193	403 358 1307	ELECT 330U M 25V
C8194	403 215 2201	CERAMIC 0.01U K 50V
C8195	403 358 1307	ELECT 330U M 25V
C8196	403 164 0204	CERAMIC 0.1U Z 25V
C8197	403 164 0204	CERAMIC 0.1U Z 25V
C8198	403 113 3805	CERAMIC 1000P K 50V
RESISTOR		
RB8001	645 028 0696	R-NETWORK 100X4 1/32W
RB8002	645 028 0696	R-NETWORK 100X4 1/32W
RB8003	645 028 0696	R-NETWORK 100X4 1/32W
RB8004	645 028 0696	R-NETWORK 100X4 1/32W
RB8005	645 028 0696	R-NETWORK 100X4 1/32W
RB8006	645 028 0696	R-NETWORK 100X4 1/32W
RB8007	645 028 0696	R-NETWORK 100X4 1/32W
RB8008	645 028 0696	R-NETWORK 100X4 1/32W
RB8009	645 028 0696	R-NETWORK 100X4 1/32W
RB8010	645 028 0696	R-NETWORK 100X4 1/32W
RB8011	645 028 0696	R-NETWORK 100X4 1/32W
RB8012	645 028 0696	R-NETWORK 100X4 1/32W
RB8013	645 028 0696	R-NETWORK 100X4 1/32W
RB8014	645 028 0696	R-NETWORK 100X4 1/32W
RB8015	645 028 0696	R-NETWORK 100X4 1/32W
RB8016	645 028 0696	R-NETWORK 100X4 1/32W
RB8021	645 028 0696	R-NETWORK 100X4 1/32W
RB8022	645 028 0696	R-NETWORK 100X4 1/32W
RB8023	645 028 0696	R-NETWORK 100X4 1/32W
RB8024	645 028 0696	R-NETWORK 100X4 1/32W
RB8031	645 028 0696	R-NETWORK 100X4 1/32W
RB8032	645 028 0696	R-NETWORK 100X4 1/32W
RB8033	645 028 0696	R-NETWORK 100X4 1/32W
RB8034	645 028 0696	R-NETWORK 100X4 1/32W
RB8131	645 026 8014	R-NETWORK 10KX4 1/16W
R8001	401 105 5905	MT-GLAZE 560 JA 1/16W
R8002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8003	401 105 4205	MT-GLAZE 33K JA 1/16W
R8004	401 105 4205	MT-GLAZE 33K JA 1/16W
R8005	401 105 4205	MT-GLAZE 33K JA 1/16W
R8006	401 105 4205	MT-GLAZE 33K JA 1/16W
R8007	401 105 4205	MT-GLAZE 33K JA 1/16W
R8008	401 105 4205	MT-GLAZE 33K JA 1/16W
R8009	401 105 4205	MT-GLAZE 33K JA 1/16W
R8010	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8011	401 105 0405	MT-GLAZE 100 JA 1/16W
R8012	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R8013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8014	401 105 5103	MT-GLAZE 47 JA 1/16W
R8015	401 105 5103	MT-GLAZE 47 JA 1/16W
R8017	401 105 5103	MT-GLAZE 47 JA 1/16W
R8018	401 105 5103	MT-GLAZE 47 JA 1/16W
R8019	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8025	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8028	401 105 0405	MT-GLAZE 100 JA 1/16W
R8029	401 105 8005	MT-GLAZE 1M JA 1/16W
R8030	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8031	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R8032	401 105 0405	MT-GLAZE 100 JA 1/16W
R8033	401 105 0405	MT-GLAZE 100 JA 1/16W

Ref. No.	Part No.	Description
R8034	401 105 0405	MT-GLAZE 100 JA 1/16W
R8035	401 105 0405	MT-GLAZE 100 JA 1/16W
R8036	401 105 0405	MT-GLAZE 100 JA 1/16W
R8037	401 105 0405	MT-GLAZE 100 JA 1/16W
R8039	401 105 8005	MT-GLAZE 1M JA 1/16W
R8040	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R8042	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8043	401 105 0504	MT-GLAZE 1K JA 1/16W
R8044	401 105 0504	MT-GLAZE 1K JA 1/16W
R8045	401 105 1709	MT-GLAZE 150K JA 1/16W
R8046	401 105 0405	MT-GLAZE 100 JA 1/16W
R8048	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8049	401 105 5905	MT-GLAZE 560 JA 1/16W
R8050	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R8051	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8052	401 105 5103	MT-GLAZE 47 JA 1/16W
R8053	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8054	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8057	401 105 0603	MT-GLAZE 10K JA 1/16W
R8058	401 105 4205	MT-GLAZE 33K JA 1/16W
R8059	401 105 0603	MT-GLAZE 10K JA 1/16W
R8060	401 105 0603	MT-GLAZE 10K JA 1/16W
R8061	401 113 4402	MT-GLAZE 75 JA 1/16W
R8063	401 105 4502	MT-GLAZE 390 JA 1/16W
R8064	401 105 0504	MT-GLAZE 1K JA 1/16W
R8066	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8067	401 105 0603	MT-GLAZE 10K JA 1/16W
R8071	401 113 4402	MT-GLAZE 75 JA 1/16W
R8073	401 105 4502	MT-GLAZE 390 JA 1/16W
R8075	401 105 0504	MT-GLAZE 1K JA 1/16W
R8076	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8077	401 105 0603	MT-GLAZE 10K JA 1/16W
R8078	401 105 0702	MT-GLAZE 100K JA 1/16W
R8079	401 105 0702	MT-GLAZE 100K JA 1/16W
R8081	401 113 4402	MT-GLAZE 75 JA 1/16W
R8083	401 105 4502	MT-GLAZE 390 JA 1/16W
R8085	401 105 0504	MT-GLAZE 1K JA 1/16W
R8086	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8087	401 105 0603	MT-GLAZE 10K JA 1/16W
R8088	645 048 4711	PROTECTOR,IC 0.75A 6V
R8090	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8093	401 105 0504	MT-GLAZE 1K JA 1/16W
R8094	401 105 0603	MT-GLAZE 10K JA 1/16W
R8095	401 105 5103	MT-GLAZE 47 JA 1/16W
R8096	401 105 5103	MT-GLAZE 47 JA 1/16W
R8097	401 105 5103	MT-GLAZE 47 JA 1/16W
R8098	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8101	401 105 5509	MT-GLAZE 470K JA 1/16W
R8102	401 105 5509	MT-GLAZE 470K JA 1/16W
R8103	401 105 0405	MT-GLAZE 100 JA 1/16W
R8104	401 105 0405	MT-GLAZE 100 JA 1/16W
R8105	401 105 3000	MT-GLAZE 220K JA 1/16W
R8106	401 105 3000	MT-GLAZE 220K JA 1/16W
R8107	401 105 3000	MT-GLAZE 220K JA 1/16W
R8108	401 105 3000	MT-GLAZE 220K JA 1/16W
R8109	401 105 0405	MT-GLAZE 100 JA 1/16W
R8111	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R8112	401 105 0405	MT-GLAZE 100 JA 1/16W
R8113	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R8114	401 105 0405	MT-GLAZE 100 JA 1/16W
R8115	401 105 0405	MT-GLAZE 100 JA 1/16W
R8121	401 105 0603	MT-GLAZE 10K JA 1/16W
R8122	401 105 4205	MT-GLAZE 33K JA 1/16W
R8131	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8132	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8134	401 105 0603	MT-GLAZE 10K JA 1/16W
R8135	401 105 0603	MT-GLAZE 10K JA 1/16W
R8136	401 105 0603	MT-GLAZE 10K JA 1/16W
R8145	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8151	401 105 0603	MT-GLAZE 10K JA 1/16W
R8152	401 105 0603	MT-GLAZE 10K JA 1/16W
R8153	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8154	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8155	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8156	401 105 0603	MT-GLAZE 10K JA 1/16W
R8157	401 105 0603	MT-GLAZE 10K JA 1/16W
R8158	401 105 0405	MT-GLAZE 100 JA 1/16W
R8159	401 105 0603	MT-GLAZE 10K JA 1/16W
R8161	401 105 0603	MT-GLAZE 10K JA 1/16W
R8162	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R8171	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8173	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8177	401 105 0405	MT-GLAZE 100 JA 1/16W
R8179	401 105 0603	MT-GLAZE 10K JA 1/16W
R8180	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R8183	401 105 0603	MT-GLAZE 10K JA 1/16W
R8184	401 105 0603	MT-GLAZE 10K JA 1/16W
R8185	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8187	401 257 7000	MT-GLAZE 820 FA 1/16W
R8188	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R8189	401 105 0603	MT-GLAZE 10K JA 1/16W
R8190	401 105 0405	MT-GLAZE 100 JA 1/16W
R8191	401 105 0405	MT-GLAZE 100 JA 1/16W
R8192	401 105 0603	MT-GLAZE 10K JA 1/16W
R8193	401 105 0603	MT-GLAZE 10K JA 1/16W
R8194	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R8195	401 105 0405	MT-GLAZE 100 JA 1/16W
R8196	401 105 0405	MT-GLAZE 100 JA 1/16W
R8197	401 105 8005	MT-GLAZE 1M JA 1/16W
R8198	401 105 0702	MT-GLAZE 100K JA 1/16W
R8199	401 105 0603	MT-GLAZE 10K JA 1/16W
COIL		
L8001	645 026 1008	INDUCTOR,3.3U M
L8002	645 026 1008	INDUCTOR,3.3U M
L8003	645 026 1008	INDUCTOR,3.3U M
L8088	645 014 2659	FILTER,EMI 10MHZ
L8089	645 026 1008	INDUCTOR,3.3U M
L8101	645 014 2659	FILTER,EMI 10MHZ
L8102	645 014 2659	FILTER,EMI 10MHZ
L8121	645 014 2659	FILTER,EMI 10MHZ
L8122	645 014 2659	FILTER,EMI 10MHZ
L8123	645 014 2659	FILTER,EMI 10MHZ
L8124	645 014 2659	FILTER,EMI 10MHZ
L8125	645 014 2659	FILTER,EMI 10MHZ
L8126	645 014 2659	FILTER,EMI 10MHZ
L8141	645 014 2659	FILTER,EMI 10MHZ
L8191	645 037 7396	INDUCTOR,22U M
DIODE		
D8061	407 209 1201	ZD UDZS-TE-176.2B
D8062	407 209 1201	ZD UDZS-TE-176.2B
D8071	407 209 1201	ZD UDZS-TE-176.2B
D8072	407 209 1201	ZD UDZS-TE-176.2B
D8081	407 209 1201	ZD UDZS-TE-176.2B
D8082	407 209 1201	ZD UDZS-TE-176.2B
D8088	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8091	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8092	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8093	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8094	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8095	407 149 0807	DIODE 1SS355-TE-17
D8096	407 149 0807	DIODE 1SS355-TE-17
D8101	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8102	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8103	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8104	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8121	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8122	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8123	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8124	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8125	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8126	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8127	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8128	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8141	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8142	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D8175	407 149 0807	DIODE 1SS355-TE-17
D8176	407 149 0807	DIODE 1SS355-TE-17
D8191	407 201 2701	DIODE RB051L-40-TE25
D8192	407 201 2701	DIODE RB051L-40-TE25
D8193	407 149 0807	DIODE 1SS355-TE-17
D8194	407 201 2701	DIODE RB051L-40-TE25
D8195	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8196	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8197	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D8198	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
MISCELLANEOUS		
TP80B	645 036 5010	TERMINAL
TP80G	645 036 5010	TERMINAL
TP80H	645 036 5010	TERMINAL
TP80R	645 036 5010	TERMINAL
TP80V	645 036 5010	TERMINAL

Ref. No.	Part No.	Description
K80A	645 048 4643	SOCKET,DVI 29P
K80A1	412 062 1909	SPECIAL SCREW
K80A2	412 062 1909	SPECIAL SCREW
K80H	645 041 6071	SOCKET,I/O 176P
K80H1	610 289 9795	JOINT GUIDE BUSH ML6A
K80H2	610 289 9795	JOINT GUIDE BUSH ML6A
K81A	645 040 9974	JACK,RCA-2
K81B	645 041 1076	SOCKET,DIN 8P
X8041	645 006 3459	OSC,CERAMIC 500.0KHZ
X8151	645 021 1218	OSC,CERAMIC 8.00MHZ
	645 037 5187	OSC,CERAMIC 8.00MHZ
X8152	645 021 1218	OSC,CERAMIC 8.00MHZ
	645 037 5187	OSC,CERAMIC 8.00MHZ

■ Assembly PWB for " Terminal board 5-BNC "

	610 299 3905	**ASSY,PWB,CONPONENT MT8A**
TRANSISTOR		
Q1011	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1015	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1062	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1063	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1064	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1066	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1068	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1091	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S

Ref. No.	Part No.	Description
Q3011	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3015	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC1004	410 343 7008	IC SN74AHCT1G14DBVR
IC1005	410 343 7008	IC SN74AHCT1G14DBVR
IC1051	409 484 2003	IC BA7078AF-E2
IC1052	410 343 7008	IC SN74AHCT1G14DBVR
IC1053	410 343 7008	IC SN74AHCT1G14DBVR
IC1054	410 392 4706	IC SN74AHCT1G125DCK
IC1056	410 343 7008	IC SN74AHCT1G14DBVR
IC1061	409 502 8703	IC TA1318N
IC2001	409 536 5600	IC AD8075ARU
IC2041	409 461 7809	IC PQ20WZ11
IC2051	409 441 8406	IC LA7217M-T-TRM
IC2052	410 365 2104	IC SN74LS221DBR
IC2071	409 470 2604	IC AD8183ARU
IC2081	409 404 6302	IC M62320FP
IC2082	409 463 7500	IC 24LC02BT/SN-T
	409 417 5507	IC 24LC04BT/SN
IC2091	410 358 1503	IC TC74HC4053AFT(EL)
IC3031	409 380 6303	IC HIN232CB
	409 273 3501	IC SP232ACT
IC3051	410 296 5700	IC TWM7000-151020
IC3061	410 275 5707	IC TWM7000-162020
	410 275 5806	IC TWM7000-162020
IC3071	409 416 6505	IC BA05FP-E2
IC3081	409 461 7304	IC AD8057ART
IC3082	409 461 7304	IC AD8057ART
IC3083	409 461 7304	IC AD8057ART
IC3084	409 461 7304	IC AD8057ART
IC3091	409 395 5902	IC TC7SH00FU-(TE85L)
CAPACITOR		
C1001	403 267 0606	NP-ELECT 4.7U M 16V
C1002	403 267 0606	NP-ELECT 4.7U M 16V
C1003	403 155 1500	CERAMIC 180P J 50V
C1004	403 146 0505	CERAMIC 1200P K 50V
C1005	403 267 0804	NP-ELECT 47U M 6.3V
C1006	403 267 0804	NP-ELECT 47U M 6.3V
C1007	403 267 0804	NP-ELECT 47U M 6.3V
C1012	403 280 0805	ELECT 330U M 6.3V
C1013	403 164 0204	CERAMIC 0.1U Z 25V
C1014	403 280 0805	ELECT 330U M 6.3V
C1015	403 164 0204	CERAMIC 0.1U Z 25V
C1021	403 157 1508	CERAMIC 3P C 50V
C1022	403 157 1904	CERAMIC 10P D 50V
C1023	403 175 3300	ELECT 47U M 16V
C1027	403 304 2105	ELECT 47U M 6.3V
C1028	403 164 0204	CERAMIC 0.1U Z 25V
C1029	403 162 6208	ELECT 1U M 50V
C1031	403 215 2201	CERAMIC 0.01U K 50V
C1032	403 157 6909	CERAMIC 820P K 50V
C1033	403 266 8108	NP-ELECT 1U M 50V
C1034	403 237 8700	CERAMIC 0.056U Z 50V
C1035	403 224 6603	CERAMIC 0.022U Z 50V
C1036	403 164 0204	CERAMIC 0.1U Z 25V
C1037	403 164 0204	CERAMIC 0.1U Z 25V
C1038	403 164 0204	CERAMIC 0.1U Z 25V
C1041	403 164 0204	CERAMIC 0.1U Z 25V
C1042	403 164 0204	CERAMIC 0.1U Z 25V
C1043	403 304 2105	ELECT 47U M 6.3V
C1044	403 164 0204	CERAMIC 0.1U Z 25V
C1051	403 267 0606	NP-ELECT 4.7U M 16V
C1052	403 266 6807	NP-ELECT 0.1U M 50V
C1053	403 162 6208	ELECT 1U M 50V
C1054	403 266 8108	NP-ELECT 1U M 50V
C1055	403 162 6604	ELECT 2.2U M 50V
C1056	403 162 6208	ELECT 1U M 50V
C1057	403 157 3601	CERAMIC 100P J 50V
C1058	403 164 0204	CERAMIC 0.1U Z 25V

Ref. No.	Part No.	Description
C1059	403 280 0805	ELECT 330U M 6.3V
C1063	403 162 6604	ELECT 2.2U M 50V
C1064	403 215 2201	CERAMIC 0.01U K 50V
C1065	403 229 3508	ELECT 100U M 16V
C1066	403 149 9208	CERAMIC 0.01U Z 50V
C1069	403 162 6208	ELECT 1U M 50V
C1071	403 162 6208	ELECT 1U M 50V
C1072	403 280 1604	ELECT 220U M 16V
C2004	403 164 0204	CERAMIC 0.1U Z 25V
C2005	403 280 0805	ELECT 330U M 6.3V
C2006	403 164 0204	CERAMIC 0.1U Z 25V
C2007	403 164 0204	CERAMIC 0.1U Z 25V
C2008	403 280 0805	ELECT 330U M 6.3V
C2040	403 280 1604	ELECT 220U M 16V
C2044	403 280 0805	ELECT 330U M 6.3V
C2059	403 164 0204	CERAMIC 0.1U Z 25V
C2072	403 164 0204	CERAMIC 0.1U Z 25V
C2073	403 164 0204	CERAMIC 0.1U Z 25V
C2074	403 149 9208	CERAMIC 0.01U Z 50V
C2075	403 149 9208	CERAMIC 0.01U Z 50V
C2076	403 149 9208	CERAMIC 0.01U Z 50V
C2078	403 164 0204	CERAMIC 0.1U Z 25V
C2079	403 164 0204	CERAMIC 0.1U Z 25V
C2081	403 280 0607	ELECT 220U M 6.3V
C2082	403 149 9208	CERAMIC 0.01U Z 50V
C2083	403 149 9208	CERAMIC 0.01U Z 50V
C2085	403 149 9208	CERAMIC 0.01U Z 50V
C2086	403 280 0607	ELECT 220U M 6.3V
C2087	403 164 0204	CERAMIC 0.1U Z 25V
C2088	403 164 0204	CERAMIC 0.1U Z 25V
C2089	403 164 0204	CERAMIC 0.1U Z 25V
C3001	403 162 4709	ELECT 10U M 16V
C3002	403 162 4709	ELECT 10U M 16V
C3003	403 164 0204	CERAMIC 0.1U Z 25V
C3021	403 283 6309	CERAMIC 1U Z 10V
C3031	403 283 6309	CERAMIC 1U Z 10V
C3032	403 162 6208	ELECT 1U M 50V
C3033	403 162 6208	ELECT 1U M 50V
C3034	403 162 6208	ELECT 1U M 50V
C3035	403 162 6208	ELECT 1U M 50V
C3041	403 283 6309	CERAMIC 1U Z 10V
C3051	403 175 4505	ELECT 47U M 6.3V
C3052	403 283 6309	CERAMIC 1U Z 10V
C3053	403 162 6208	ELECT 1U M 50V
C3054	403 283 6309	CERAMIC 1U Z 10V
C3061	403 283 6309	CERAMIC 1U Z 10V
C3062	403 283 6309	CERAMIC 1U Z 10V
C3071	403 164 0204	CERAMIC 0.1U Z 25V
C3072	403 280 0805	ELECT 330U M 6.3V
C3081	403 157 1508	CERAMIC 3P C 50V
C3082	403 157 1904	CERAMIC 10P D 50V
C3083	403 157 1508	CERAMIC 3P C 50V
C3084	403 157 1904	CERAMIC 10P D 50V
C3085	403 157 1508	CERAMIC 3P C 50V
C3086	403 157 1904	CERAMIC 10P D 50V
RESISTOR		
RB3041	645 025 5380	R-NETWORK 10KX4 1/16W
	645 026 8014	R-NETWORK 10KX4 1/16W
R1001	401 226 1206	MT-GLAZE 150 FA 1/16W
R1002	401 226 1206	MT-GLAZE 150 FA 1/16W
R1004	401 226 1206	MT-GLAZE 150 FA 1/16W
R1005	401 226 1206	MT-GLAZE 150 FA 1/16W
R1007	401 226 1206	MT-GLAZE 150 FA 1/16W
R1008	401 226 1206	MT-GLAZE 150 FA 1/16W
R1010	401 113 4709	MT-GLAZE 130 JA 1/16W
R1011	401 113 4709	MT-GLAZE 130 JA 1/16W
R1012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1014	401 105 0405	MT-GLAZE 100 JA 1/16W
R1015	401 113 4709	MT-GLAZE 130 JA 1/16W
R1016	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1018	401 113 4907	MT-GLAZE 200 JA 1/16W
R1019	401 113 4709	MT-GLAZE 130 JA 1/16W
R1021	401 105 0702	MT-GLAZE 100K JA 1/16W
R1025	401 105 0702	MT-GLAZE 100K JA 1/16W
R1029	401 105 0702	MT-GLAZE 100K JA 1/16W
R1037	401 105 0702	MT-GLAZE 100K JA 1/16W
R1038	401 105 1709	MT-GLAZE 150K JA 1/16W
R1039	401 105 5400	MT-GLAZE 47K JA 1/16W
R1040	401 105 5400	MT-GLAZE 47K JA 1/16W
R1041	401 105 4502	MT-GLAZE 390 JA 1/16W
R1042	401 105 0504	MT-GLAZE 1K JA 1/16W
R1043	401 105 0504	MT-GLAZE 1K JA 1/16W
R1044	401 105 2508	MT-GLAZE 20K JA 1/16W
R1045	401 105 7503	MT-GLAZE 82K JA 1/16W
R1046	401 105 0405	MT-GLAZE 100 JA 1/16W
R1047	401 105 0504	MT-GLAZE 1K JA 1/16W
R1048	401 105 0504	MT-GLAZE 1K JA 1/16W
R1049	401 105 0504	MT-GLAZE 1K JA 1/16W
R1051	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1053	401 105 8005	MT-GLAZE 1M JA 1/16W
R1054	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1055	401 105 0405	MT-GLAZE 100 JA 1/16W
R1056	401 105 0405	MT-GLAZE 100 JA 1/16W
R1059	401 105 0405	MT-GLAZE 100 JA 1/16W
R1060	401 105 0405	MT-GLAZE 100 JA 1/16W
R1061	401 105 0405	MT-GLAZE 100 JA 1/16W
R1062	401 105 0405	MT-GLAZE 100 JA 1/16W
R1063	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R1064	401 113 5201	MT-GLAZE 360 JA 1/16W
R1065	401 105 0405	MT-GLAZE 100 JA 1/16W
R1066	401 105 0405	MT-GLAZE 100 JA 1/16W
R1067	401 105 0405	MT-GLAZE 100 JA 1/16W
R1068	401 105 0603	MT-GLAZE 10K JA 1/16W
R1069	401 105 0405	MT-GLAZE 100 JA 1/16W
R1070	401 105 3000	MT-GLAZE 220K JA 1/16W
R1071	401 105 0405	MT-GLAZE 100 JA 1/16W
R1072	401 105 3000	MT-GLAZE 220K JA 1/16W
R1073	401 105 0405	MT-GLAZE 100 JA 1/16W
R1075	401 105 0603	MT-GLAZE 10K JA 1/16W
R1076	401 105 0405	MT-GLAZE 100 JA 1/16W
R1077	401 113 5102	MT-GLAZE 300 JA 1/16W
R1078	401 105 0405	MT-GLAZE 100 JA 1/16W
R1079	401 105 5202	MT-GLAZE 470 JA 1/16W
R1081	401 105 1709	MT-GLAZE 150K JA 1/16W
R1082	401 177 2109	MT-GLAZE 4.7M JA 1/16W
R1083	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1084	401 105 0504	MT-GLAZE 1K JA 1/16W
R1085	401 105 0504	MT-GLAZE 1K JA 1/16W
R1086	401 105 4700	MT-GLAZE 39K JA 1/16W
R1087	401 105 0306	MT-GLAZE 10 JA 1/16W
R1088	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1089	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R1091	401 105 0603	MT-GLAZE 10K JA 1/16W
R1092	401 105 0603	MT-GLAZE 10K JA 1/16W
R1093	401 105 0603	MT-GLAZE 10K JA 1/16W
R1094	401 105 0603	MT-GLAZE 10K JA 1/16W
R2001	401 105 4502	MT-GLAZE 390 JA 1/16W
R2002	401 105 4502	MT-GLAZE 390 JA 1/16W
R2003	401 105 4502	MT-GLAZE 390 JA 1/16W
R2004	401 105 4007	MT-GLAZE 330 JA 1/16W
R2005	401 105 4007	MT-GLAZE 330 JA 1/16W
R2006	401 105 4007	MT-GLAZE 330 JA 1/16W
R2007	401 105 4007	MT-GLAZE 330 JA 1/16W
R2008	401 105 4007	MT-GLAZE 330 JA 1/16W
R2009	401 105 4007	MT-GLAZE 330 JA 1/16W
R2011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2042	401 113 5201	MT-GLAZE 360 JA 1/16W
R2043	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2044	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2045	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2046	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2047	401 036 8907	MT-GLAZE 5.6 JA 1/8W
R2070	401 105 0603	MT-GLAZE 10K JA 1/16W
R2071	401 105 0603	MT-GLAZE 10K JA 1/16W
R2077	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2078	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2079	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2081	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2082	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2084	401 105 0405	MT-GLAZE 100 JA 1/16W
R2085	401 105 0405	MT-GLAZE 100 JA 1/16W
R2086	401 105 0405	MT-GLAZE 100 JA 1/16W
R2087	401 105 0405	MT-GLAZE 100 JA 1/16W
R2097	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2098	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2099	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3001	401 105 5509	MT-GLAZE 470K JA 1/16W
R3002	401 105 5509	MT-GLAZE 470K JA 1/16W
R3003	401 105 0405	MT-GLAZE 100 JA 1/16W
R3004	401 105 0405	MT-GLAZE 100 JA 1/16W
R3006	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3007	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R3008	401 105 3000	MT-GLAZE 220K JA 1/16W

Ref. No.	Part No.	Description
R3009	401 105 3000	MT-GLAZE 220K JA 1/16W
R3011	401 105 3000	MT-GLAZE 220K JA 1/16W
R3012	401 105 0405	MT-GLAZE 100 JA 1/16W
R3013	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3014	401 105 0405	MT-GLAZE 100 JA 1/16W
R3015	401 105 3000	MT-GLAZE 220K JA 1/16W
R3016	401 105 0405	MT-GLAZE 100 JA 1/16W
R3017	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3018	401 105 0405	MT-GLAZE 100 JA 1/16W
R3021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3023	401 105 5400	MT-GLAZE 47K JA 1/16W
R3027	401 105 0603	MT-GLAZE 10K JA 1/16W
R3028	401 105 0603	MT-GLAZE 10K JA 1/16W
R3031	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3045	401 105 0603	MT-GLAZE 10K JA 1/16W
R3046	401 105 0603	MT-GLAZE 10K JA 1/16W
R3047	401 105 0603	MT-GLAZE 10K JA 1/16W
R3048	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3051	401 105 0603	MT-GLAZE 10K JA 1/16W
R3052	401 105 0603	MT-GLAZE 10K JA 1/16W
R3053	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3054	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3061	401 105 0603	MT-GLAZE 10K JA 1/16W
R3062	401 105 0603	MT-GLAZE 10K JA 1/16W
R3063	401 105 0405	MT-GLAZE 100 JA 1/16W
R3064	401 105 0603	MT-GLAZE 10K JA 1/16W
R3065	401 105 0603	MT-GLAZE 10K JA 1/16W
R3066	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3072	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3074	401 105 0504	MT-GLAZE 1K JA 1/16W
R3081	401 105 5905	MT-GLAZE 560 JA 1/16W
R3083	401 105 0504	MT-GLAZE 1K JA 1/16W
R3084	401 105 5905	MT-GLAZE 560 JA 1/16W
R3086	401 105 0504	MT-GLAZE 1K JA 1/16W
R3087	401 105 5905	MT-GLAZE 560 JA 1/16W
R3089	401 105 0504	MT-GLAZE 1K JA 1/16W
R3091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3093	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L1004	645 025 0637	FILTER,EMI 190PF
L1005	645 025 0637	FILTER,EMI 190PF
L1061	645 036 3894	INDUCTOR,220 OHM
L2001	645 040 7796	FILTER,LP 30MHZ
L2002	645 040 7796	FILTER,LP 30MHZ
L2003	645 040 7796	FILTER,LP 30MHZ
L2071	645 036 3894	INDUCTOR,220 OHM
L2072	645 036 3894	INDUCTOR,220 OHM
L3001	645 014 2659	FILTER,EMI 10MHZ
L3002	645 014 2659	FILTER,EMI 10MHZ
L3003	645 014 2659	FILTER,EMI 10MHZ
L3004	645 014 2659	FILTER,EMI 10MHZ
L3005	645 014 2659	FILTER,EMI 10MHZ
L3006	645 014 2659	FILTER,EMI 10MHZ
L3007	645 014 2659	FILTER,EMI 10MHZ
L3008	645 014 2659	FILTER,EMI 10MHZ
L3009	645 014 2659	FILTER,EMI 10MHZ
DIODE		
D1007	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1008	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1009	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1011	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1012	407 092 9506	DIODE SB07-03C-TB
D1013	407 092 9506	DIODE SB07-03C-TB
D1014	407 149 0807	DIODE 1SS355-TE-17
D1015	407 149 0807	DIODE 1SS355-TE-17
D2081	407 149 0807	DIODE 1SS355-TE-17
D2082	407 149 0807	DIODE 1SS355-TE-17
D3001	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3002	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3003	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3004	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3005	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3006	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3007	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3008	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3009	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3011	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3012	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3013	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3014	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3015	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3

Ref. No.	Part No.	Description
MISCELLANEOUS		
TP2071	645 036 5010	TERMINAL
TP2072	645 036 5010	TERMINAL
TP2073	645 036 5010	TERMINAL
K10A	645 028 0412	SOCKET,BNC 5P
K10B	645 040 9974	JACK,RCA-2
K10C	645 041 1076	SOCKET,DIN 8P
K10H	645 041 6071	SOCKET,I/O 176P
K10H1	610 289 9795	JOINT GUIDE BUSH ML6A
K10H2	610 289 9795	JOINT GUIDE BUSH ML6A
SC1001	645 045 7449	SURGE-ABSORBER
SC1002	645 045 7449	SURGE-ABSORBER
SC1003	645 045 7449	SURGE-ABSORBER
X1061	645 046 9213	OSC,CERAMIC 503.0KHZ
X1062	645 006 3459	OSC,CERAMIC 500.0KHZ
X3051	645 021 1218	OSC,CERAMIC 8.00MHZ
	645 037 5187	OSC,CERAMIC 8.00MHZ
X3061	645 021 1218	OSC,CERAMIC 8.00MHZ
	645 037 5187	OSC,CERAMIC 8.00MHZ

■ Assembly PWB CG-MOTHER

	610 300 9254	**ASSY,PWB,CGMOTHER MY8A**
TRANSISTOR		
Q9001	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9002	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q9003	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9004	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q9021	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9027	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9028	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0

Electrical Parts List

Ref. No.	Part No.	Description
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9029	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC9001	409 438 5500	IC TC4052BFT
IC9002	409 438 5500	IC TC4052BFT
IC9003	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC9005	409 153 5601	IC MC74F244M
	409 451 4108	IC SN74F244NSR
IC9006	409 462 6009	IC AD8185ARU
IC9007	409 462 6009	IC AD8185ARU
IC9013	409 438 5500	IC TC4052BFT
IC9014	409 445 7306	IC QS3125QX
IC9016	409 489 5009	IC TC74VCX04FT
IC9017	409 522 7502	IC TC7SA08FU
IC9021	409 404 6302	IC M62320FP
IC9022	409 404 6302	IC M62320FP
IC9031	410 464 9707	IC 74VCX162374MTDX
IC9032	410 464 9707	IC 74VCX162374MTDX
IC9033	410 464 9707	IC 74VCX162374MTDX
IC9041	410 466 0504	IC TC74VCX2374FT
IC9091	409 416 6505	IC BA05FP-E2
IC9092	409 416 6505	IC BA05FP-E2
IC9093	409 416 6505	IC BA05FP-E2
IC9096	409 461 7809	IC PQ20WZ11
IC9097	409 461 7809	IC PQ20WZ11
IC9098	409 461 7809	IC PQ20WZ11
CAPACITOR		
C9002	403 164 0204	CERAMIC 0.1U Z 25V
C9003	403 229 3508	ELECT 100U M 16V
C9004	403 164 0204	CERAMIC 0.1U Z 25V
C9005	403 205 7803	TA-SOLID 2.2U M 16V
C9006	403 205 7803	TA-SOLID 2.2U M 16V
C9008	403 205 7803	TA-SOLID 2.2U M 16V
C9009	403 205 7803	TA-SOLID 2.2U M 16V
C9010	403 164 0204	CERAMIC 0.1U Z 25V
C9011	403 205 7803	TA-SOLID 2.2U M 16V
C9012	403 205 7803	TA-SOLID 2.2U M 16V
C9014	403 175 4505	ELECT 47U M 6.3V
C9015	403 164 0204	CERAMIC 0.1U Z 25V
C9016	403 175 4505	ELECT 47U M 6.3V
C9017	403 164 0204	CERAMIC 0.1U Z 25V
C9018	403 175 4505	ELECT 47U M 6.3V
C9019	403 164 0204	CERAMIC 0.1U Z 25V
C9020	403 280 0607	ELECT 220U M 6.3V
C9021	403 164 0204	CERAMIC 0.1U Z 25V
C9022	403 164 0204	CERAMIC 0.1U Z 25V
C9023	403 149 9208	CERAMIC 0.01U Z 50V
C9024	403 149 9208	CERAMIC 0.01U Z 50V
C9025	403 149 9208	CERAMIC 0.01U Z 50V
C9026	403 164 0204	CERAMIC 0.1U Z 25V
C9027	403 164 0204	CERAMIC 0.1U Z 25V
C9028	403 175 4505	ELECT 47U M 6.3V
C9029	403 149 9208	CERAMIC 0.01U Z 50V
C9030	403 280 0607	ELECT 220U M 6.3V
C9031	403 149 9208	CERAMIC 0.01U Z 50V
C9033	403 149 9208	CERAMIC 0.01U Z 50V
C9034	403 175 4505	ELECT 47U M 6.3V
C9035	403 164 0204	CERAMIC 0.1U Z 25V
C9036	403 164 0204	CERAMIC 0.1U Z 25V
C9037	403 164 0204	CERAMIC 0.1U Z 25V
C9038	403 149 9208	CERAMIC 0.01U Z 50V
C9039	403 149 9208	CERAMIC 0.01U Z 50V
C9040	403 175 0606	ELECT 100U M 6.3V
C9041	403 149 9208	CERAMIC 0.01U Z 50V
C9042	403 164 0204	CERAMIC 0.1U Z 25V
C9043	403 164 0204	CERAMIC 0.1U Z 25V
C9044	403 175 4505	ELECT 47U M 6.3V
C9045	403 149 9208	CERAMIC 0.01U Z 50V
C9046	403 149 9208	CERAMIC 0.01U Z 50V
C9048	403 149 9208	CERAMIC 0.01U Z 50V
C9049	403 175 4505	ELECT 47U M 6.3V
C9050	403 280 0607	ELECT 220U M 6.3V
C9051	403 164 0204	CERAMIC 0.1U Z 25V

Ref. No.	Part No.	Description
C9057	403 343 4900	ELECT 470U M 25V
C9059	403 343 4900	ELECT 470U M 25V
C9061	403 343 4900	ELECT 470U M 25V
C9062	403 343 4900	ELECT 470U M 25V
C9064	403 343 4900	ELECT 470U M 25V
C9065	403 343 4900	ELECT 470U M 25V
C9066	403 175 4505	ELECT 47U M 6.3V
C9067	403 164 0204	CERAMIC 0.1U Z 25V
C9068	403 322 1807	ELECT 47U M 16V
C9069	403 164 0204	CERAMIC 0.1U Z 25V
C9070	403 164 0204	CERAMIC 0.1U Z 25V
C9071	403 164 0204	CERAMIC 0.1U Z 25V
C9072	403 164 0204	CERAMIC 0.1U Z 25V
C9073	403 164 0204	CERAMIC 0.1U Z 25V
C9075	403 322 1807	ELECT 47U M 16V
C9076	403 322 1807	ELECT 47U M 16V
C9077	403 164 0204	CERAMIC 0.1U Z 25V
C9082	403 345 6605	CERAMIC 1U M 10V
C9083	403 175 4505	ELECT 47U M 6.3V
C9084	403 164 0204	CERAMIC 0.1U Z 25V
C9085	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C9086	403 164 0204	CERAMIC 0.1U Z 25V
C9087	403 113 3805	CERAMIC 1000P K 50V
C9088	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C9089	403 164 0204	CERAMIC 0.1U Z 25V
C9090	403 113 3805	CERAMIC 1000P K 50V
C9091	403 317 4509	ELECT 100U M 6.3V
C9092	403 164 0204	CERAMIC 0.1U Z 25V
C9093	403 317 4509	ELECT 100U M 6.3V
C9094	403 164 0204	CERAMIC 0.1U Z 25V
C9095	403 317 4509	ELECT 100U M 6.3V
C9096	403 164 0204	CERAMIC 0.1U Z 25V
C9099	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C9100	403 164 0204	CERAMIC 0.1U Z 25V
C9101	403 113 3805	CERAMIC 1000P K 50V
C9102	403 164 0204	CERAMIC 0.1U Z 25V
C9103	403 280 0508	ELECT 470U M 4V
RESISTOR		
R9001	401 105 0405	MT-GLAZE 100 JA 1/16W
R9002	401 105 0405	MT-GLAZE 100 JA 1/16W
R9003	401 105 0405	MT-GLAZE 100 JA 1/16W
R9004	401 105 0405	MT-GLAZE 100 JA 1/16W
R9005	401 105 0405	MT-GLAZE 100 JA 1/16W
R9006	401 105 0405	MT-GLAZE 100 JA 1/16W
R9007	401 105 0405	MT-GLAZE 100 JA 1/16W
R9008	401 105 0405	MT-GLAZE 100 JA 1/16W
R9009	401 105 0405	MT-GLAZE 100 JA 1/16W
R9010	401 105 0306	MT-GLAZE 10 JA 1/16W
R9011	401 105 0405	MT-GLAZE 100 JA 1/16W
R9012	401 105 0603	MT-GLAZE 10K JA 1/16W
R9013	401 105 0603	MT-GLAZE 10K JA 1/16W
R9015	401 105 0603	MT-GLAZE 10K JA 1/16W
R9017	401 105 0603	MT-GLAZE 10K JA 1/16W
R9018	401 105 0603	MT-GLAZE 10K JA 1/16W
R9019	401 105 0603	MT-GLAZE 10K JA 1/16W
R9020	401 105 0603	MT-GLAZE 10K JA 1/16W
R9021	401 105 0603	MT-GLAZE 10K JA 1/16W
R9022	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9023	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9024	401 105 0603	MT-GLAZE 10K JA 1/16W
R9025	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9026	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9027	401 105 0405	MT-GLAZE 100 JA 1/16W
R9028	401 105 0702	MT-GLAZE 100K JA 1/16W
R9029	401 105 0405	MT-GLAZE 100 JA 1/16W
R9030	401 105 0603	MT-GLAZE 10K JA 1/16W
R9031	401 105 0702	MT-GLAZE 100K JA 1/16W
R9033	401 105 0702	MT-GLAZE 100K JA 1/16W
R9034	401 105 0405	MT-GLAZE 100 JA 1/16W
R9035	401 105 0702	MT-GLAZE 100K JA 1/16W
R9036	401 105 0702	MT-GLAZE 100K JA 1/16W
R9037	401 105 0405	MT-GLAZE 100 JA 1/16W
R9038	401 105 0702	MT-GLAZE 100K JA 1/16W
R9039	401 105 0405	MT-GLAZE 100 JA 1/16W
R9040	401 105 0603	MT-GLAZE 10K JA 1/16W
R9041	401 105 0702	MT-GLAZE 100K JA 1/16W
R9042	401 105 0405	MT-GLAZE 100 JA 1/16W
R9043	401 105 0702	MT-GLAZE 100K JA 1/16W
R9047	401 105 0603	MT-GLAZE 10K JA 1/16W
R9048	401 105 0603	MT-GLAZE 10K JA 1/16W
R9049	401 105 0603	MT-GLAZE 10K JA 1/16W
R9050	401 105 0603	MT-GLAZE 10K JA 1/16W
R9051	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description
R9052	401 105 0702	MT-GLAZE 100K JA 1/16W
R9053	401 105 0405	MT-GLAZE 100 JA 1/16W
R9054	401 105 0702	MT-GLAZE 100K JA 1/16W
R9055	401 105 0405	MT-GLAZE 100 JA 1/16W
R9056	401 105 0702	MT-GLAZE 100K JA 1/16W
R9057	401 105 0405	MT-GLAZE 100 JA 1/16W
R9058	401 105 0702	MT-GLAZE 100K JA 1/16W
R9063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9064	401 105 0405	MT-GLAZE 100 JA 1/16W
R9065	401 105 0405	MT-GLAZE 100 JA 1/16W
R9066	401 105 0603	MT-GLAZE 10K JA 1/16W
R9067	401 105 0603	MT-GLAZE 10K JA 1/16W
R9068	401 105 0603	MT-GLAZE 10K JA 1/16W
R9069	401 105 0603	MT-GLAZE 10K JA 1/16W
R9071	401 105 0603	MT-GLAZE 10K JA 1/16W
R9072	401 105 0603	MT-GLAZE 10K JA 1/16W
R9074	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9075	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9076	401 113 5706	MT-GLAZE 910 JA 1/16W
R9077	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9078	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9079	401 113 5706	MT-GLAZE 910 JA 1/16W
R9081	401 113 4402	MT-GLAZE 75 JA 1/16W
R9082	401 105 4403	MT-GLAZE 39 JA 1/16W
R9083	401 113 4402	MT-GLAZE 75 JA 1/16W
R9084	401 105 4403	MT-GLAZE 39 JA 1/16W
R9085	401 113 4402	MT-GLAZE 75 JA 1/16W
R9086	401 105 4403	MT-GLAZE 39 JA 1/16W
R9087	401 113 4402	MT-GLAZE 75 JA 1/16W
R9088	401 105 4403	MT-GLAZE 39 JA 1/16W
R9089	401 113 4402	MT-GLAZE 75 JA 1/16W
R9091	401 105 4403	MT-GLAZE 39 JA 1/16W
R9092	401 113 4402	MT-GLAZE 75 JA 1/16W
R9093	401 105 4403	MT-GLAZE 39 JA 1/16W
R9094	401 105 1808	MT-GLAZE 18 JA 1/16W
R9095	401 105 1808	MT-GLAZE 18 JA 1/16W
R9096	401 105 4403	MT-GLAZE 39 JA 1/16W
R9097	401 105 1808	MT-GLAZE 18 JA 1/16W
R9098	401 105 1808	MT-GLAZE 18 JA 1/16W
R9099	401 105 4403	MT-GLAZE 39 JA 1/16W
R9101	401 105 1808	MT-GLAZE 18 JA 1/16W
R9102	401 105 1808	MT-GLAZE 18 JA 1/16W
R9103	401 105 1808	MT-GLAZE 18 JA 1/16W
R9104	401 105 4403	MT-GLAZE 39 JA 1/16W
R9105	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9107	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9108	401 105 0306	MT-GLAZE 10 JA 1/16W
R9111	401 113 4402	MT-GLAZE 75 JA 1/16W
R9112	401 105 4403	MT-GLAZE 39 JA 1/16W
R9113	401 113 4402	MT-GLAZE 75 JA 1/16W
R9114	401 105 4403	MT-GLAZE 39 JA 1/16W
R9115	401 113 4402	MT-GLAZE 75 JA 1/16W
R9116	401 105 4403	MT-GLAZE 39 JA 1/16W
R9117	401 113 4402	MT-GLAZE 75 JA 1/16W
R9118	401 105 4403	MT-GLAZE 39 JA 1/16W
R9119	401 113 4402	MT-GLAZE 75 JA 1/16W
R9121	401 105 4403	MT-GLAZE 39 JA 1/16W
R9122	401 113 4402	MT-GLAZE 75 JA 1/16W
R9123	401 105 4403	MT-GLAZE 39 JA 1/16W
R9124	401 105 1808	MT-GLAZE 18 JA 1/16W
R9125	401 105 1808	MT-GLAZE 18 JA 1/16W
R9126	401 105 4403	MT-GLAZE 39 JA 1/16W
R9127	401 105 1808	MT-GLAZE 18 JA 1/16W
R9128	401 105 1808	MT-GLAZE 18 JA 1/16W
R9129	401 105 4403	MT-GLAZE 39 JA 1/16W
R9131	401 105 1808	MT-GLAZE 18 JA 1/16W
R9132	401 105 1808	MT-GLAZE 18 JA 1/16W
R9133	401 105 1808	MT-GLAZE 18 JA 1/16W
R9134	401 105 4403	MT-GLAZE 39 JA 1/16W
R9135	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9137	401 105 0603	MT-GLAZE 10K JA 1/16W
R9138	401 105 0603	MT-GLAZE 10K JA 1/16W
R9139	401 105 0306	MT-GLAZE 10 JA 1/16W
R9141	401 105 0603	MT-GLAZE 10K JA 1/16W
R9151	401 105 1402	MT-GLAZE 150 JA 1/16W
R9152	401 105 0405	MT-GLAZE 100 JA 1/16W
R9161	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9162	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9163	401 113 5706	MT-GLAZE 910 JA 1/16W
R9171	401 105 0405	MT-GLAZE 100 JA 1/16W
R9172	401 105 0405	MT-GLAZE 100 JA 1/16W
R9174	401 105 0405	MT-GLAZE 100 JA 1/16W
R9175	401 105 0405	MT-GLAZE 100 JA 1/16W
R9176	401 105 0405	MT-GLAZE 100 JA 1/16W
R9177	401 105 0405	MT-GLAZE 100 JA 1/16W
R9183	401 105 0603	MT-GLAZE 10K JA 1/16W
R9184	401 105 0603	MT-GLAZE 10K JA 1/16W
R9185	401 105 0603	MT-GLAZE 10K JA 1/16W
R9186	401 105 0603	MT-GLAZE 10K JA 1/16W
R9187	401 105 0603	MT-GLAZE 10K JA 1/16W
R9188	401 105 0603	MT-GLAZE 10K JA 1/16W
R9189	401 105 0603	MT-GLAZE 10K JA 1/16W
R9191	401 105 0603	MT-GLAZE 10K JA 1/16W
R9501	401 105 0603	MT-GLAZE 10K JA 1/16W
R9502	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9503	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9504	401 105 0603	MT-GLAZE 10K JA 1/16W
R9505	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9506	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9507	401 105 0405	MT-GLAZE 100 JA 1/16W
R9508	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9509	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9510	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9511	401 105 0603	MT-GLAZE 10K JA 1/16W
R9512	401 105 0603	MT-GLAZE 10K JA 1/16W
R9513	401 105 0603	MT-GLAZE 10K JA 1/16W
R9514	401 105 0306	MT-GLAZE 10 JA 1/16W
R9515	401 105 0405	MT-GLAZE 100 JA 1/16W
R9516	401 105 0405	MT-GLAZE 100 JA 1/16W
R9517	401 105 0405	MT-GLAZE 100 JA 1/16W
R9518	401 105 0405	MT-GLAZE 100 JA 1/16W
R9519	401 105 0405	MT-GLAZE 100 JA 1/16W
R9520	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9521	401 105 0405	MT-GLAZE 100 JA 1/16W
R9522	401 105 0405	MT-GLAZE 100 JA 1/16W
R9523	401 105 0603	MT-GLAZE 10K JA 1/16W
R9524	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9525	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9528	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9529	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9530	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9535	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
DIODE		
D9004	407 190 4106	DIODE SFPL-52V
D9011	407 221 7106	ZENER DIODE UDZS-TE-1712B
D9013	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D9014	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D9021	407 190 4106	DIODE SFPL-52V
MISCELLANEOUS		
K90A	645 040 6775	SOCKET,PWB 40P
K90B	645 040 6775	SOCKET,PWB 40P
K90C	645 041 6064	PLUG,I/O 176P
K90C1	610 289 9788	JOINT GUIDE PIN ML6A
K90C2	610 289 9788	JOINT GUIDE PIN ML6A
K90D	645 041 6064	PLUG,I/O 176P
K90D1	610 289 9788	JOINT GUIDE PIN ML6A
K90D2	610 289 9788	JOINT GUIDE PIN ML6A
K90E	645 041 6064	PLUG,I/O 176P
K90E1	610 289 9788	JOINT GUIDE PIN ML6A
K90E2	610 289 9788	JOINT GUIDE PIN ML6A
K90G	645 038 1645	PLUG,SIDE-ZR-SM3 12P
K90K	645 009 8390	PLUG,ANT 2P
K90L	645 009 8390	PLUG,ANT 2P
K90M	645 009 8390	PLUG,ANT 2P
K90N	645 036 1326	TERMINAL
K90P	645 036 1326	TERMINAL
K90Q	645 041 8136	PLUG,40P
K90R	645 012 2248	PLUG,4P

■ Assembly PWB MOTOR&AUDIO

	610 300 9261	**ASSY,PWB,MOTOR&AUDIO MY8A**
TRANSISTOR		
Q001	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0

Ref. No.	Part No.	Description
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q003	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q004	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q005	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC001	409 017 7208	IC LA4261
IC1601	409 114 4803	IC LB1641
IC1611	409 114 4803	IC LB1641
IC1631	409 085 1900	IC LB1645N
CAPACITOR		
C001	403 280 1802	ELECT 100U M 25V
C003	403 215 2201	CERAMIC 0.01U K 50V
C004	403 280 1802	ELECT 100U M 25V
C006	403 215 2201	CERAMIC 0.01U K 50V
C007	403 280 1802	ELECT 100U M 25V
C008	403 162 6604	ELECT 2.2U M 50V
C009	403 298 9609	CERAMIC 0.1U K 16V
C010	403 298 9609	CERAMIC 0.1U K 16V
C011	403 343 4900	ELECT 470U M 25V
C012	403 298 9609	CERAMIC 0.1U K 16V
C013	403 343 4900	ELECT 470U M 25V
C014	403 343 4900	ELECT 470U M 25V
C015	403 266 8801	NP-ELECT 2.2U M 50V
C016	403 266 8801	NP-ELECT 2.2U M 50V
C017	403 280 1802	ELECT 100U M 25V
C018	403 343 4900	ELECT 470U M 25V
C019	403 343 4900	ELECT 470U M 25V
C021	403 343 4900	ELECT 470U M 25V
C026	403 343 4900	ELECT 470U M 25V
C1602	403 215 2201	CERAMIC 0.01U K 50V
C1603	403 215 2201	CERAMIC 0.01U K 50V
C1612	403 215 2201	CERAMIC 0.01U K 50V
C1613	403 215 2201	CERAMIC 0.01U K 50V
C1631	403 343 4900	ELECT 470U M 25V
C1632	403 215 2201	CERAMIC 0.01U K 50V
C1633	403 343 4900	ELECT 470U M 25V
C1642	403 215 2201	CERAMIC 0.01U K 50V
C1643	403 281 5205	CERAMIC 0.22U Z 16V
C1653	403 343 4900	ELECT 470U M 25V
C1654	403 215 2201	CERAMIC 0.01U K 50V
C1656	403 343 4900	ELECT 470U M 25V
C1893	403 164 0204	CERAMIC 0.1U Z 25V
C1894	403 164 0204	CERAMIC 0.1U Z 25V
C1895	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R001	401 105 3208	MT-GLAZE 270 JA 1/16W
R002	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R003	401 105 2102	MT-GLAZE 18K JA 1/16W
R004	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R005	401 105 2102	MT-GLAZE 18K JA 1/16W
R006	401 105 3208	MT-GLAZE 270 JA 1/16W
R007	401 105 2706	MT-GLAZE 220 JA 1/16W
R008	401 105 0603	MT-GLAZE 10K JA 1/16W
R009	401 105 4205	MT-GLAZE 33K JA 1/16W
R011	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R012	401 105 5905	MT-GLAZE 560 JA 1/16W
R013	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R014	401 105 5905	MT-GLAZE 560 JA 1/16W
R016	401 105 0504	MT-GLAZE 1K JA 1/16W
R017	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R018	401 105 0603	MT-GLAZE 10K JA 1/16W
R021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R022	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R024	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R028	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R031	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R035	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1601	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1602	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1603	401 105 0504	MT-GLAZE 1K JA 1/16W
R1604	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1611	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1612	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1613	401 105 0504	MT-GLAZE 1K JA 1/16W
R1614	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1631	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1632	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1633	401 105 0504	MT-GLAZE 1K JA 1/16W
R1634	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L002	645 026 1008	INDUCTOR,3.3U M
DIODE		
D001	407 149 0807	DIODE 1SS355-TE-17
D002	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1601	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1602	407 149 0807	DIODE 1SS355-TE-17
D1603	407 149 0807	DIODE 1SS355-TE-17
D1611	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1612	407 149 0807	DIODE 1SS355-TE-17
D1613	407 149 0807	DIODE 1SS355-TE-17
D1631	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D1632	407 149 0807	DIODE 1SS355-TE-17
D1633	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
K16A	645 041 8136	PLUG,40P
K16B	645 029 6314	PULG,3P
K16C	645 004 2904	PLUG,4P
K16D	645 004 2898	PLUG,3P
K16E	645 029 6321	PULG,4P
K16F	645 043 3719	PLUG,3P
K16H	645 029 6345	PULG,6P

■ Assembly PWB CONTROL

	610 300 9278	**ASSY,PWB,CONTROL MY8A**
CAPACITOR		
C6801	403 298 9609	CERAMIC 0.1U K 16V
C6802	403 298 9609	CERAMIC 0.1U K 16V
C6803	403 298 9609	CERAMIC 0.1U K 16V
RESISTOR		
R6801	401 105 2904	MT-GLAZE 22K JA 1/16W
R6802	401 105 1600	MT-GLAZE 15K JA 1/16W
R6803	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R6804	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6806	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6807	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R6808	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6809	401 105 5202	MT-GLAZE 470 JA 1/16W
R6812	401 105 2904	MT-GLAZE 22K JA 1/16W
R6813	401 105 1600	MT-GLAZE 15K JA 1/16W
R6814	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R6816	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6817	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6818	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R6819	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6821	401 105 5202	MT-GLAZE 470 JA 1/16W
R6823	401 105 2904	MT-GLAZE 22K JA 1/16W
R6824	401 105 1600	MT-GLAZE 15K JA 1/16W
R6826	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R6827	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6828	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6829	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R6831	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6832	401 105 5202	MT-GLAZE 470 JA 1/16W
DIODE		
D6801	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6802	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6803	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6804	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
MISCELLANEOUS		

Ref. No.	Part No.	Description
K96A	645 046 8254	PLUG,30P
K96B	645 005 8387	PLUG,6P
K96U	645 012 2248	PLUG,4P
SW6801	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6802	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6803	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6804	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6806	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6807	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6809	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6811	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6812	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6813	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6814	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6816	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6817	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6819	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6821	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6822	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6824	645 025 3478	SWITCH,PUSH 1P-2TX1
SW6825	645 025 3478	SWITCH,PUSH 1P-2TX1

■ Assembly PWB RS-232C

	610 300 9285	**ASSY,PWB,RS232C MY8A**
TRANSISTOR		
Q3851	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC3801	409 380 6303	IC HIN232CB
	409 273 3501	IC SP232ACT
IC3803	409 380 6303	IC HIN232CB
	409 273 3501	IC SP232ACT
IC3804	409 438 5609	IC TC74ACT08FT
CAPACITOR		
C3851	403 162 6208	ELECT 1U M 50V
C3852	403 162 6208	ELECT 1U M 50V
C3853	403 162 6208	ELECT 1U M 50V
C3854	403 162 6208	ELECT 1U M 50V
C3855	403 283 6309	CERAMIC 1U Z 10V
C3856	403 175 4505	ELECT 47U M 6.3V
C3857	403 162 4709	ELECT 10U M 16V
C3858	403 162 4709	ELECT 10U M 16V
C3859	403 162 6208	ELECT 1U M 50V
C3861	403 162 6208	ELECT 1U M 50V
C3862	403 162 6208	ELECT 1U M 50V
C3863	403 162 6208	ELECT 1U M 50V
C3864	403 175 4505	ELECT 47U M 6.3V
C3865	403 283 6309	CERAMIC 1U Z 10V
C3866	403 175 4505	ELECT 47U M 6.3V
C3867	403 283 6309	CERAMIC 1U Z 10V
RESISTOR		
R3851	401 105 0405	MT-GLAZE 100 JA 1/16W
R3852	401 105 0405	MT-GLAZE 100 JA 1/16W
R3855	401 105 0405	MT-GLAZE 100 JA 1/16W
R3856	401 105 0603	MT-GLAZE 10K JA 1/16W
R3857	401 105 4007	MT-GLAZE 330 JA 1/16W
R3858	401 105 0405	MT-GLAZE 100 JA 1/16W
R3859	401 105 0405	MT-GLAZE 100 JA 1/16W
R3861	401 105 5509	MT-GLAZE 470K JA 1/16W
R3862	401 105 5509	MT-GLAZE 470K JA 1/16W
R3863	401 105 0405	MT-GLAZE 100 JA 1/16W
R3864	401 105 0405	MT-GLAZE 100 JA 1/16W
R3865	401 105 0405	MT-GLAZE 100 JA 1/16W
R3866	401 105 0405	MT-GLAZE 100 JA 1/16W
R3868	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3869	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3877	401 105 0405	MT-GLAZE 100 JA 1/16W
R3878	401 105 0405	MT-GLAZE 100 JA 1/16W
R3882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3884	401 105 0405	MT-GLAZE 100 JA 1/16W
R3885	401 105 0405	MT-GLAZE 100 JA 1/16W
R3886	401 105 0603	MT-GLAZE 10K JA 1/16W
R3887	401 105 0603	MT-GLAZE 10K JA 1/16W
R3888	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3889	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3893	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L3851	645 014 2659	FILTER,EMI 10MHZ
L3852	645 014 2659	FILTER,EMI 10MHZ
L3853	645 014 2659	FILTER,EMI 10MHZ
L3854	645 014 2659	FILTER,EMI 10MHZ
L3855	645 014 2659	FILTER,EMI 10MHZ
L3856	645 014 2659	FILTER,EMI 10MHZ
L3857	645 026 1008	INDUCTOR,3.3U M
L3858	645 014 2659	FILTER,EMI 10MHZ
L3859	645 014 2659	FILTER,EMI 10MHZ
DIODE		
D3851	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3852	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3853	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3854	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3855	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3856	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3857	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3858	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3859	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3861	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3862	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3863	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3866	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3867	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3868	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3869	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3871	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3872	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3873	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3874	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3875	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3876	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3877	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3878	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3879	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3881	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3882	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3883	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3884	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3886	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D3887	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
IC3802	408 016 8803	PC PC113 (VDE0884)
K38A	645 027 8778	PLUG,D-SUB 9P
K38B	645 027 8778	PLUG,D-SUB 9P
K38C	645 028 0382	SOCKET,USB 4P
K38D	645 000 2571	JACK,PHONE D8.0
K38DA	610 266 0715	EARTH BRKT MIC-M6FA
K38E	645 044 8263	JACK,RCA-2
K38EA	610 260 2203	SHIELD PLATE-E-M6DA
K38F	645 038 1645	PLUG,SIDE-ZR-SM3 12P
K38G	645 036 1326	TERMINAL
K38H	645 012 2248	PLUG,4P
SW3801	610 011 1790	SWITCH,PUSH

■ Assembly PWB LED

	610 300 9292	**ASSY,PWB,LED MY8A**
TRANSISTOR		
Q6851	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q6852	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R

Ref. No.	Part No.	Description
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q6853	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q6854	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
RESISTOR		
R6851	401 105 5202	MT-GLAZE 470 JA 1/16W
R6852	401 105 5202	MT-GLAZE 470 JA 1/16W
R6853	401 105 5202	MT-GLAZE 470 JA 1/16W
R6854	401 105 5202	MT-GLAZE 470 JA 1/16W
R6855	401 105 5202	MT-GLAZE 470 JA 1/16W
R6856	401 105 5202	MT-GLAZE 470 JA 1/16W
R6857	401 105 5202	MT-GLAZE 470 JA 1/16W
R6858	401 105 5202	MT-GLAZE 470 JA 1/16W
R6861	401 105 0405	MT-GLAZE 100 JA 1/16W
R6862	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6863	401 105 0405	MT-GLAZE 100 JA 1/16W
R6864	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6865	401 105 0405	MT-GLAZE 100 JA 1/16W
R6866	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6867	401 105 0405	MT-GLAZE 100 JA 1/16W
R6868	401 105 2805	MT-GLAZE 2.2K JA 1/16W
DIODE		
D6851	407 196 9907	LED SEL4828A
D6851A	610 290 9340	HOLDER LED A-MV6A
D6852	407 196 9709	LED SEL4228C
D6853	407 196 9808	LED SEL4428E
D6854	407 196 9709	LED SEL4228C
D6855	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6856	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6857	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6858	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D6859	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
MISCELLANEOUS		
K68B	645 005 8387	PLUG,6P

■ Assembly PWB REMOCON RECEIVER-1

	610 300 9308	**ASSY,PWB,R/C1 MY8A**
CAPACITOR		
C6841	403 348 5803	CERAMIC 0.47U K 10V
C6842	403 348 5803	CERAMIC 0.47U K 10V
RESISTOR		
R6842	401 105 0405	MT-GLAZE 100 JA 1/16W
R6844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
DIODE		
D6841	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D6842	407 225 0202	DIODE RB751S-40
MISCELLANEOUS		
A6841	645 034 5029	UNIT,REMOCON RECEIVER
K68E	645 012 2248	PLUG,4P

■ Assembly PWB REMOCON RECEIVER-2

	610 300 9315	**ASSY,PWB,R/C2 MY8A**
CAPACITOR		
C6846	403 348 5803	CERAMIC 0.47U K 10V
C6847	403 348 5803	CERAMIC 0.47U K 10V
RESISTOR		
R6847	401 105 0405	MT-GLAZE 100 JA 1/16W
R6849	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
DIODE		
D6846	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D6847	407 225 0202	DIODE RB751S-40
MISCELLANEOUS		
A6846	645 034 5029	UNIT,REMOCON RECEIVER
K68D	645 012 2248	PLUG,4P

■ Assembly PWB SENSOR

	610 300 9322	**ASSY,PWB,SENSOR MY8A**
INTEGRATED CIRCUIT		
IC5801	409 481 8602	IC LM76CHMX-5
CAPACITOR		
C5801	403 164 0204	CERAMIC 0.1U Z 25V
C5802	403 162 4709	ELECT 10U M 16V
RESISTOR		
R5802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5803	401 105 0603	MT-GLAZE 10K JA 1/16W
R5805	401 105 0603	MT-GLAZE 10K JA 1/16W
R5807	401 105 0405	MT-GLAZE 100 JA 1/16W
R5808	401 105 0405	MT-GLAZE 100 JA 1/16W
MISCELLANEOUS		
K58A	645 012 2248	PLUG,4P

■ Assembly PWB PFC FANNET

	610 302 3762	**ASSY,PWB,PFC FANNET MY8A**
MISCELLANEOUS		
K46D	645 004 2898	PLUG,3P
K46E	645 047 0769	PLUG,PWB 3P

■ Assembly PWB for " Terminal board AV "

	610 304 0646	**ASSY,PWB,AV MT8A**
TRANSISTOR		
Q101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q102	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1151	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1152	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0

Ref. No.	Part No.	Description
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1153	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1156	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1161	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1162	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1163	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1164	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q161	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q162	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q163	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0

Ref. No.	Part No.	Description
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q164	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q165	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q166	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q167	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q168	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2101	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q2151	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2191	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3100	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3101	405 014 4509	TR 2SC2412K T146 R

Ref. No.	Part No.	Description
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3102	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3141	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3143	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3144	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3145	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3160	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3181	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3182	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3183	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4182	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4185	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5103	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5104	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5105	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5106	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5107	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC1101	409 453 9309	IC UPD64082GF-3BA
IC1121	409 416 6406	IC BA033FP-E2
IC1131	410 342 8808	IC MSM54V16258BSL-40TS-K
IC1141	409 051 2900	IC TC4053BF(EL)
IC1181	409 051 2900	IC TC4053BF(EL)
IC1191	409 397 3005	IC TC7SET04FU-(TE85L)

Ref. No.	Part No.	Description
IC141	409 051 2900	IC TC4053BF(EL)
IC181	409 461 7304	IC AD8057ART
IC182	409 461 7304	IC AD8057ART
IC183	409 461 7304	IC AD8057ART
IC184	409 461 7304	IC AD8057ART
IC2101	409 442 1307	IC CXD2064Q
IC2141	409 422 5806	IC M62398FP
IC2142	409 404 6302	IC M62320FP
IC2143	409 392 7503	IC 24LC08BT/SN
IC2151	409 250 9809	IC TC4W53F-TE12L
IC2161	409 051 2900	IC TC4053BF(EL)
IC3121	409 408 4205	IC TDA8395T/N3
IC3131	409 435 3806	IC TDA4665T/V5T
IC3141	409 449 2901	IC CXA2019AQ
IC3151	409 461 7304	IC AD8057ART
IC3161	409 493 2902	IC SI-3012LU-TL
IC4101	409 474 0002	IC CXA2101AQ
IC4111	409 397 3005	IC TC7SET04FU-(TE85L)
IC4112	409 397 3005	IC TC7SET04FU-(TE85L)
IC4181	409 051 2900	IC TC4053BF(EL)
IC5101	409 422 6605	IC TC90A11F
IC5111	409 325 4203	IC PST600DMT
IC5150	410 365 2005	IC MSM518221A-25GS-K
IC5181	409 461 7304	IC AD8057ART
IC5182	409 461 7304	IC AD8057ART
IC5183	409 461 7304	IC AD8057ART
CAPACITOR		
C101	403 162 4709	ELECT 10U M 16V
C102	403 162 4709	ELECT 10U M 16V
C103	403 164 0204	CERAMIC 0.1U Z 25V
C104	403 280 1604	ELECT 220U M 16V
C1101	403 145 9905	CERAMIC 22P J 50V
C1102	403 145 9905	CERAMIC 22P J 50V
C1103	403 164 0204	CERAMIC 0.1U Z 25V
C1104	403 164 0204	CERAMIC 0.1U Z 25V
C1105	403 215 0900	CERAMIC 390P J 50V
C1106	403 164 0204	CERAMIC 0.1U Z 25V
C1107	403 164 0204	CERAMIC 0.1U Z 25V
C1108	403 164 0204	CERAMIC 0.1U Z 25V
C1109	403 283 6309	CERAMIC 1U Z 10V
C1110	403 283 6309	CERAMIC 1U Z 10V
C1112	403 283 6309	CERAMIC 1U Z 10V
C1113	403 164 0204	CERAMIC 0.1U Z 25V
C1114	403 164 0204	CERAMIC 0.1U Z 25V
C1115	403 164 0204	CERAMIC 0.1U Z 25V
C1116	403 164 0204	CERAMIC 0.1U Z 25V
C1117	403 266 8108	NP-ELECT 1U M 50V
C1119	403 162 4709	ELECT 10U M 16V
C1121	403 164 0204	CERAMIC 0.1U Z 25V
C1122	403 164 0204	CERAMIC 0.1U Z 25V
C1123	403 164 0204	CERAMIC 0.1U Z 25V
C1124	403 164 0204	CERAMIC 0.1U Z 25V
C1125	403 164 0204	CERAMIC 0.1U Z 25V
C1126	403 164 0204	CERAMIC 0.1U Z 25V
C1127	403 175 4505	ELECT 47U M 6.3V
C1128	403 164 0204	CERAMIC 0.1U Z 25V
C1129	403 175 4505	ELECT 47U M 6.3V
C1132	403 280 0805	ELECT 330U M 6.3V
C1133	403 164 0204	CERAMIC 0.1U Z 25V
C1134	403 283 6309	CERAMIC 1U Z 10V
C1135	403 280 0805	ELECT 330U M 6.3V
C1136	403 283 6309	CERAMIC 1U Z 10V
C1137	403 283 6309	CERAMIC 1U Z 10V
C1141	403 175 4505	ELECT 47U M 6.3V
C1146	403 164 0204	CERAMIC 0.1U Z 25V
C1147	403 283 6309	CERAMIC 1U Z 10V
C1148	403 164 0204	CERAMIC 0.1U Z 25V
C1151	403 283 6309	CERAMIC 1U Z 10V
C1152	403 283 6309	CERAMIC 1U Z 10V
C1161	403 283 6309	CERAMIC 1U Z 10V
C1162	403 145 9905	CERAMIC 22P J 50V
C1187	403 283 6309	CERAMIC 1U Z 10V
C1188	403 164 0204	CERAMIC 0.1U Z 25V
C123	403 164 0204	CERAMIC 0.1U Z 25V
C146	403 283 6309	CERAMIC 1U Z 10V
C147	403 164 0204	CERAMIC 0.1U Z 25V
C161	403 266 8108	NP-ELECT 1U M 50V
C162	403 323 8805	CERAMIC 2.2U Z 16V
	403 255 7907	CERAMIC 2.2U Z 16V
C163	403 164 0204	CERAMIC 0.1U Z 25V
C164	403 283 6309	CERAMIC 1U Z 10V
C165	403 113 3805	CERAMIC 1000P K 50V
C166	403 162 6208	ELECT 1U M 50V
C167	403 164 0204	CERAMIC 0.1U Z 25V
C168	403 283 6309	CERAMIC 1U Z 10V
C180	403 155 4204	CERAMIC 15P J 50V
C181	403 155 4204	CERAMIC 15P J 50V
C182	403 155 4204	CERAMIC 15P J 50V
C183	403 155 4204	CERAMIC 15P J 50V
C2101	403 175 4802	NP-ELECT 10U M 10V
C2102	403 164 0204	CERAMIC 0.1U Z 25V
C2103	403 283 6309	CERAMIC 1U Z 10V
C2104	403 164 0204	CERAMIC 0.1U Z 25V
C2105	403 164 0204	CERAMIC 0.1U Z 25V
C2106	403 164 0204	CERAMIC 0.1U Z 25V
C2107	403 283 6309	CERAMIC 1U Z 10V
C2108	403 164 0204	CERAMIC 0.1U Z 25V
C2109	403 164 0204	CERAMIC 0.1U Z 25V
C2111	403 164 0204	CERAMIC 0.1U Z 25V
C2112	403 164 0204	CERAMIC 0.1U Z 25V
C2113	403 215 2201	CERAMIC 0.01U K 50V
C2114	403 283 6309	CERAMIC 1U Z 10V
C2116	403 283 6309	CERAMIC 1U Z 10V
C2117	403 164 0204	CERAMIC 0.1U Z 25V
C2118	401 105 0405	MT-GLAZE 100 JA 1/16W
C2119	403 215 2201	CERAMIC 0.01U K 50V
C2121	403 283 6309	CERAMIC 1U Z 10V
C2122	403 164 0204	CERAMIC 0.1U Z 25V
C2123	403 280 0805	ELECT 330U M 6.3V
C2124	403 215 2201	CERAMIC 0.01U K 50V
C2125	403 215 2201	CERAMIC 0.01U K 50V
C2126	403 215 2904	CERAMIC 0.022U K 25V
C2127	403 164 0204	CERAMIC 0.1U Z 25V
C2128	403 283 6309	CERAMIC 1U Z 10V
C2129	403 283 6309	CERAMIC 1U Z 10V
C2131	403 215 2201	CERAMIC 0.01U K 50V
C2133	401 219 1107	MT-GLAZE 1.8K FA 1/16W
C2134	403 215 2201	CERAMIC 0.01U K 50V
C2135	403 215 2201	CERAMIC 0.01U K 50V
C2136	403 215 2201	CERAMIC 0.01U K 50V
C2137	403 280 0805	ELECT 330U M 6.3V
C2138	403 280 0805	ELECT 330U M 6.3V
C2141	403 164 0204	CERAMIC 0.1U Z 25V
C2143	403 283 6309	CERAMIC 1U Z 10V
C2144	403 175 4505	ELECT 47U M 6.3V
C2145	403 164 0204	CERAMIC 0.1U Z 25V
C2146	403 164 0204	CERAMIC 0.1U Z 25V
C2147	403 164 0204	CERAMIC 0.1U Z 25V
C2148	403 164 0204	CERAMIC 0.1U Z 25V
C2149	403 164 0204	CERAMIC 0.1U Z 25V
C2150	403 164 0204	CERAMIC 0.1U Z 25V
C2151	403 164 0204	CERAMIC 0.1U Z 25V
C2152	403 164 0204	CERAMIC 0.1U Z 25V
C2153	403 164 0204	CERAMIC 0.1U Z 25V
C2154	403 164 0204	CERAMIC 0.1U Z 25V
C2155	403 164 0204	CERAMIC 0.1U Z 25V
C2156	403 164 0204	CERAMIC 0.1U Z 25V
C2157	403 164 0204	CERAMIC 0.1U Z 25V
C2158	403 164 0204	CERAMIC 0.1U Z 25V
C2159	403 164 0204	CERAMIC 0.1U Z 25V
C2160	403 164 0204	CERAMIC 0.1U Z 25V
C2167	403 283 6309	CERAMIC 1U Z 10V
C2168	403 164 0204	CERAMIC 0.1U Z 25V
C2170	403 164 0204	CERAMIC 0.1U Z 25V
C2171	403 164 0204	CERAMIC 0.1U Z 25V
C2172	403 164 0204	CERAMIC 0.1U Z 25V
C2173	403 164 0204	CERAMIC 0.1U Z 25V
C2174	403 164 0204	CERAMIC 0.1U Z 25V
C2182	403 175 4109	ELECT 22U M 16V
C2184	403 175 4109	ELECT 22U M 16V
C2186	403 164 0204	CERAMIC 0.1U Z 25V
C2188	403 164 0204	CERAMIC 0.1U Z 25V
C2191	401 105 0603	MT-GLAZE 10K JA 1/16W
C2192	403 145 9905	CERAMIC 22P J 50V
C2193	403 145 9905	CERAMIC 22P J 50V
C3016	403 280 1604	ELECT 220U M 16V
C3018	403 164 0204	CERAMIC 0.1U Z 25V
C3105	403 164 0204	CERAMIC 0.1U Z 25V
C3106	403 215 2201	CERAMIC 0.01U K 50V
C3121	403 162 4709	ELECT 10U M 16V
C3122	403 164 0204	CERAMIC 0.1U Z 25V
C3123	403 298 9609	CERAMIC 0.1U K 16V
C3124	403 298 9609	CERAMIC 0.1U K 16V
C3125	403 298 9609	CERAMIC 0.1U K 16V
C3131	403 215 2201	CERAMIC 0.01U K 50V
C3132	403 283 6309	CERAMIC 1U Z 10V

Ref. No.	Part No.	Description
C3134	403 175 4109	ELECT 22U M 16V
C3135	403 164 0204	CERAMIC 0.1U Z 25V
C3136	403 164 0204	CERAMIC 0.1U Z 25V
C3137	403 164 0204	CERAMIC 0.1U Z 25V
C3140	403 283 6309	CERAMIC 1U Z 10V
C3141	403 215 2201	CERAMIC 0.01U K 50V
C3142	403 283 6309	CERAMIC 1U Z 10V
C3143	403 164 0204	CERAMIC 0.1U Z 25V
C3144	403 162 6604	ELECT 2.2U M 50V
C3146	403 164 0204	CERAMIC 0.1U Z 25V
C3147	403 266 8108	NP-ELECT 1U M 50V
C3148	403 266 8108	NP-ELECT 1U M 50V
C3149	403 266 8108	NP-ELECT 1U M 50V
C3150	403 286 8508	ELECT 330U M 16V
C3151	403 348 5803	CERAMIC 0.47U K 10V
C3152	403 348 5803	CERAMIC 0.47U K 10V
C3153	403 157 2109	CERAMIC 13P J 50V
C3154	403 157 2109	CERAMIC 13P J 50V
C3155	403 157 2109	CERAMIC 13P J 50V
C3157	403 157 2109	CERAMIC 13P J 50V
C3159	403 155 1500	CERAMIC 180P J 50V
C3160	403 215 2201	CERAMIC 0.01U K 50V
C3163	403 162 5300	ELECT 4.7U M 25V
C3164	403 343 8809	CERAMIC 0.47U Z 16V
C3166	403 266 8108	NP-ELECT 1U M 50V
C3167	403 215 2102	CERAMIC 8200P K 50V
C3168	403 162 6000	ELECT 0.47U M 50V
C3169	403 153 9102	CERAMIC 5P C 50V
C3172	403 157 3601	CERAMIC 100P J 50V
C3175	403 164 0204	CERAMIC 0.1U Z 25V
C3176	403 175 4109	ELECT 22U M 16V
C3177	403 162 6000	ELECT 0.47U M 50V
C4119	403 164 0204	CERAMIC 0.1U Z 25V
C4126	403 215 2201	CERAMIC 0.01U K 50V
C4129	403 164 0204	CERAMIC 0.1U Z 25V
C4132	403 164 0204	CERAMIC 0.1U Z 25V
C4133	403 164 0204	CERAMIC 0.1U Z 25V
C4134	403 164 0204	CERAMIC 0.1U Z 25V
C4135	403 162 4709	ELECT 10U M 16V
C4137	403 348 5803	CERAMIC 0.47U K 10V
C4138	403 162 4709	ELECT 10U M 16V
C4139	403 298 9609	CERAMIC 0.1U K 16V
C4140	403 215 2201	CERAMIC 0.01U K 50V
C4141	403 215 2201	CERAMIC 0.01U K 50V
C4142	403 215 2201	CERAMIC 0.01U K 50V
C4143	403 215 2201	CERAMIC 0.01U K 50V
C4144	403 215 2201	CERAMIC 0.01U K 50V
C4145	403 215 2201	CERAMIC 0.01U K 50V
C4146	403 215 2201	CERAMIC 0.01U K 50V
C4147	403 215 2201	CERAMIC 0.01U K 50V
C4148	403 215 2201	CERAMIC 0.01U K 50V
C4157	403 162 4709	ELECT 10U M 16V
C4158	403 348 5803	CERAMIC 0.47U K 10V
C4160	403 343 8809	CERAMIC 0.47U Z 16V
C4164	403 164 0204	CERAMIC 0.1U Z 25V
C4165	403 164 0204	CERAMIC 0.1U Z 25V
C4166	403 164 0204	CERAMIC 0.1U Z 25V
C4169	403 215 2201	CERAMIC 0.01U K 50V
C4171	403 215 2201	CERAMIC 0.01U K 50V
C4172	403 215 2201	CERAMIC 0.01U K 50V
C4181	403 164 0204	CERAMIC 0.1U Z 25V
C4182	403 283 6309	CERAMIC 1U Z 10V
C4183	403 283 6309	CERAMIC 1U Z 10V
C4184	403 283 6309	CERAMIC 1U Z 10V
C4185	403 224 7006	CERAMIC 0.047U Z 50V
C4186	403 224 7006	CERAMIC 0.047U Z 50V
C4187	403 283 6309	CERAMIC 1U Z 10V
C4188	403 164 0204	CERAMIC 0.1U Z 25V
C5100	403 164 0204	CERAMIC 0.1U Z 25V
C5101	403 164 0204	CERAMIC 0.1U Z 25V
C5102	403 164 0204	CERAMIC 0.1U Z 25V
C5103	403 215 1006	CERAMIC 470P J 50V
C5104	403 298 9609	CERAMIC 0.1U K 16V
C5105	403 155 1302	CERAMIC 150P J 50V
C5106	403 139 7108	CERAMIC 12P J 50V
C5107	403 164 0204	CERAMIC 0.1U Z 25V
C5108	403 164 0204	CERAMIC 0.1U Z 25V
C5109	403 164 0204	CERAMIC 0.1U Z 25V
C5110	403 162 4709	ELECT 10U M 16V
C5111	403 280 0805	ELECT 330U M 6.3V
C5112	403 164 0204	CERAMIC 0.1U Z 25V
C5113	403 215 2201	CERAMIC 0.01U K 50V
C5114	403 155 1500	CERAMIC 180P J 50V

Ref. No.	Part No.	Description
C5115	403 215 2201	CERAMIC 0.01U K 50V
C5116	403 164 0204	CERAMIC 0.1U Z 25V
C5117	403 164 0204	CERAMIC 0.1U Z 25V
C5118	403 164 0204	CERAMIC 0.1U Z 25V
C5119	403 164 0204	CERAMIC 0.1U Z 25V
C5120	403 153 9102	CERAMIC 5P C 50V
C5121	403 164 0204	CERAMIC 0.1U Z 25V
C5122	403 164 0204	CERAMIC 0.1U Z 25V
C5123	403 164 0204	CERAMIC 0.1U Z 25V
C5124	403 164 0204	CERAMIC 0.1U Z 25V
C5125	403 164 0204	CERAMIC 0.1U Z 25V
C5126	403 164 0204	CERAMIC 0.1U Z 25V
C5128	403 155 4204	CERAMIC 15P J 50V
C5129	403 155 1609	CERAMIC 33P J 50V
C5130	403 157 1706	CERAMIC 8P D 50V
C5132	403 162 6208	ELECT 1U M 50V
C5133	403 139 7306	CERAMIC 18P J 50V
C5134	403 215 2201	CERAMIC 0.01U K 50V
C5135	403 139 7306	CERAMIC 18P J 50V
C5136	403 157 1508	CERAMIC 3P C 50V
C5137	403 157 1706	CERAMIC 8P D 50V
C5138	403 164 0204	CERAMIC 0.1U Z 25V
C5139	403 153 9102	CERAMIC 5P C 50V
C5141	403 145 9905	CERAMIC 22P J 50V
C5142	403 157 1706	CERAMIC 8P D 50V
C5143	403 164 0204	CERAMIC 0.1U Z 25V
C5144	403 283 6309	CERAMIC 1U Z 10V
C5145	403 164 0204	CERAMIC 0.1U Z 25V
C5146	403 164 0204	CERAMIC 0.1U Z 25V
C5147	403 164 0204	CERAMIC 0.1U Z 25V
C5148	403 164 0204	CERAMIC 0.1U Z 25V
C5149	403 280 0805	ELECT 330U M 6.3V
C5151	403 283 6309	CERAMIC 1U Z 10V
C5152	403 164 0204	CERAMIC 0.1U Z 25V
C5181	403 280 1604	ELECT 220U M 16V
C5182	403 164 0204	CERAMIC 0.1U Z 25V
C5183	403 153 9102	CERAMIC 5P C 50V
C5184	403 153 9102	CERAMIC 5P C 50V
C5185	403 153 9102	CERAMIC 5P C 50V
C5186	403 155 1609	CERAMIC 33P J 50V
C5187	403 155 1609	CERAMIC 33P J 50V
C5188	403 155 1609	CERAMIC 33P J 50V
RESISTOR		
R100	401 105 3000	MT-GLAZE 220K JA 1/16W
R101	401 105 5509	MT-GLAZE 470K JA 1/16W
R102	401 105 5509	MT-GLAZE 470K JA 1/16W
R103	401 105 0405	MT-GLAZE 100 JA 1/16W
R104	401 105 3000	MT-GLAZE 220K JA 1/16W
R105	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R106	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R107	401 105 0405	MT-GLAZE 100 JA 1/16W
R108	401 105 3000	MT-GLAZE 220K JA 1/16W
R109	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R110	401 105 3000	MT-GLAZE 220K JA 1/16W
R1101	401 105 5202	MT-GLAZE 470 JA 1/16W
R1102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1103	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1105	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1106	401 105 5202	MT-GLAZE 470 JA 1/16W
R1107	401 105 5202	MT-GLAZE 470 JA 1/16W
R1108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1109	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R111	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1111	401 105 0405	MT-GLAZE 100 JA 1/16W
R1112	401 105 0405	MT-GLAZE 100 JA 1/16W
R1113	401 105 0405	MT-GLAZE 100 JA 1/16W
R1128	401 105 0405	MT-GLAZE 100 JA 1/16W
R1129	401 105 0405	MT-GLAZE 100 JA 1/16W
R1131	401 105 0405	MT-GLAZE 100 JA 1/16W
R1132	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1141	401 105 1105	MT-GLAZE 12K JA 1/16W
R1142	401 105 8104	MT-GLAZE 56K JA 1/16W
R1149	401 105 0405	MT-GLAZE 100 JA 1/16W
R1151	401 105 0405	MT-GLAZE 100 JA 1/16W
R1152	401 105 0405	MT-GLAZE 100 JA 1/16W
R1155	401 105 7503	MT-GLAZE 82K JA 1/16W
R1156	401 105 2102	MT-GLAZE 18K JA 1/16W
R1157	401 105 0504	MT-GLAZE 1K JA 1/16W
R1158	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1159	401 105 7305	MT-GLAZE 820 JA 1/16W
R1161	401 105 6001	MT-GLAZE 5.6K JA 1/16W

Ref. No.	Part No.	Description
R1162	401 105 0504	MT-GLAZE 1K JA 1/16W
R1163	401 105 2706	MT-GLAZE 220 JA 1/16W
R1165	401 105 4502	MT-GLAZE 390 JA 1/16W
R1166	401 105 5103	MT-GLAZE 47 JA 1/16W
R1167	401 105 0504	MT-GLAZE 1K JA 1/16W
R1168	401 105 0504	MT-GLAZE 1K JA 1/16W
R1169	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1171	401 105 7305	MT-GLAZE 820 JA 1/16W
R1172	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1173	401 105 0504	MT-GLAZE 1K JA 1/16W
R1174	401 105 2706	MT-GLAZE 220 JA 1/16W
R1175	401 105 2706	MT-GLAZE 220 JA 1/16W
R1176	401 105 5905	MT-GLAZE 560 JA 1/16W
R1177	401 105 5103	MT-GLAZE 47 JA 1/16W
R1178	401 105 0504	MT-GLAZE 1K JA 1/16W
R1183	401 105 2706	MT-GLAZE 220 JA 1/16W
R1184	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1187	401 105 0405	MT-GLAZE 100 JA 1/16W
R1188	401 105 0405	MT-GLAZE 100 JA 1/16W
R1189	401 105 0405	MT-GLAZE 100 JA 1/16W
R121	401 226 1206	MT-GLAZE 150 FA 1/16W
R122	401 226 1206	MT-GLAZE 150 FA 1/16W
R123	401 226 1206	MT-GLAZE 150 FA 1/16W
R124	401 226 1206	MT-GLAZE 150 FA 1/16W
R125	401 105 0405	MT-GLAZE 100 JA 1/16W
R126	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R131	401 226 1206	MT-GLAZE 150 FA 1/16W
R132	401 226 1206	MT-GLAZE 150 FA 1/16W
R133	401 226 1206	MT-GLAZE 150 FA 1/16W
R134	401 226 1206	MT-GLAZE 150 FA 1/16W
R147	401 105 0405	MT-GLAZE 100 JA 1/16W
R148	401 105 0405	MT-GLAZE 100 JA 1/16W
R149	401 105 0405	MT-GLAZE 100 JA 1/16W
R161	401 105 4809	MT-GLAZE 390K JA 1/16W
R162	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R163	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R164	401 105 0405	MT-GLAZE 100 JA 1/16W
R165	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R166	401 105 0405	MT-GLAZE 100 JA 1/16W
R167	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R168	401 105 7305	MT-GLAZE 820 JA 1/16W
R169	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R171	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R172	401 105 2706	MT-GLAZE 220 JA 1/16W
R173	401 105 3000	MT-GLAZE 220K JA 1/16W
R174	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R175	401 105 5202	MT-GLAZE 470 JA 1/16W
R176	401 105 5400	MT-GLAZE 47K JA 1/16W
R177	401 105 0504	MT-GLAZE 1K JA 1/16W
R178	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R179	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R180	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R182	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R183	401 105 2904	MT-GLAZE 22K JA 1/16W
R184	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R185	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R187	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R188	401 105 2904	MT-GLAZE 22K JA 1/16W
R189	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R190	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R192	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R193	401 105 4700	MT-GLAZE 39K JA 1/16W
R194	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R195	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R197	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R198	401 105 4700	MT-GLAZE 39K JA 1/16W
R199	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R2101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2103	401 105 1402	MT-GLAZE 150 JA 1/16W
R2104	401 235 4106	MT-GLAZE 120 FA 1/16W
R2105	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2106	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2107	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2110	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2111	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2113	401 105 0405	MT-GLAZE 100 JA 1/16W
R2114	401 105 0405	MT-GLAZE 100 JA 1/16W
R2116	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2117	401 105 8104	MT-GLAZE 56K JA 1/16W
R2118	401 105 5905	MT-GLAZE 560 JA 1/16W
R2119	401 105 0504	MT-GLAZE 1K JA 1/16W
R2120	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2121	401 105 0603	MT-GLAZE 10K JA 1/16W
R2122	401 105 0900	MT-GLAZE 120 JA 1/16W
R2123	401 226 1206	MT-GLAZE 150 FA 1/16W
R2124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2125	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2126	401 105 0405	MT-GLAZE 100 JA 1/16W
R2127	401 105 0405	MT-GLAZE 100 JA 1/16W
R2128	401 105 0405	MT-GLAZE 100 JA 1/16W
R2129	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2130	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R2131	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2132	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2140	401 038 2002	MT-GLAZE 270 JA 1/10W
R2141	401 105 0405	MT-GLAZE 100 JA 1/16W
R2142	401 105 0405	MT-GLAZE 100 JA 1/16W
R2144	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2145	401 105 0405	MT-GLAZE 100 JA 1/16W
R2146	401 105 0405	MT-GLAZE 100 JA 1/16W
R2147	401 105 0405	MT-GLAZE 100 JA 1/16W
R2148	401 105 0405	MT-GLAZE 100 JA 1/16W
R2149	401 105 0603	MT-GLAZE 10K JA 1/16W
R2150	401 038 2002	MT-GLAZE 270 JA 1/10W
R2151	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2153	401 105 0603	MT-GLAZE 10K JA 1/16W
R2155	401 105 0405	MT-GLAZE 100 JA 1/16W
R2156	401 105 0405	MT-GLAZE 100 JA 1/16W
R2157	401 105 0504	MT-GLAZE 1K JA 1/16W
R2160	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2161	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R2162	401 105 0603	MT-GLAZE 10K JA 1/16W
R2163	401 105 2706	MT-GLAZE 220 JA 1/16W
R2164	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2165	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2167	401 105 0405	MT-GLAZE 100 JA 1/16W
R2168	401 105 0405	MT-GLAZE 100 JA 1/16W
R2169	401 105 0405	MT-GLAZE 100 JA 1/16W
R2170	401 105 4007	MT-GLAZE 330 JA 1/16W
R2171	401 105 0702	MT-GLAZE 100K JA 1/16W
R2191	401 105 0504	MT-GLAZE 1K JA 1/16W
R2192	401 105 0504	MT-GLAZE 1K JA 1/16W
R2193	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3105	401 105 0504	MT-GLAZE 1K JA 1/16W
R3106	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R3107	401 105 5202	MT-GLAZE 470 JA 1/16W
R3108	401 105 2904	MT-GLAZE 22K JA 1/16W
R3109	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3110	401 105 0405	MT-GLAZE 100 JA 1/16W
R3120	401 105 0504	MT-GLAZE 1K JA 1/16W
R3121	401 037 9101	MT-GLAZE 180 JA 1/10W
R3122	401 037 9101	MT-GLAZE 180 JA 1/10W
R3130	401 105 6506	MT-GLAZE 680 JA 1/16W
R3131	401 105 0504	MT-GLAZE 1K JA 1/16W
R3132	401 105 0306	MT-GLAZE 10 JA 1/16W
R3140	401 105 0504	MT-GLAZE 1K JA 1/16W
R3142	401 105 4007	MT-GLAZE 330 JA 1/16W
R3143	401 105 0603	MT-GLAZE 10K JA 1/16W
R3144	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3145	401 105 0504	MT-GLAZE 1K JA 1/16W
R3147	401 105 0504	MT-GLAZE 1K JA 1/16W
R3148	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3151	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3152	401 105 0504	MT-GLAZE 1K JA 1/16W
R3153	401 105 5202	MT-GLAZE 470 JA 1/16W
R3154	401 105 8104	MT-GLAZE 56K JA 1/16W
R3155	401 105 8104	MT-GLAZE 56K JA 1/16W
R3156	401 105 8104	MT-GLAZE 56K JA 1/16W
R3157	401 105 8104	MT-GLAZE 56K JA 1/16W
R3158	401 105 8104	MT-GLAZE 56K JA 1/16W
R3159	401 105 0504	MT-GLAZE 1K JA 1/16W
R3160	401 105 1204	MT-GLAZE 120K JA 1/16W
R3162	401 105 2706	MT-GLAZE 220 JA 1/16W
R3163	401 105 2706	MT-GLAZE 220 JA 1/16W
R3165	401 105 0405	MT-GLAZE 100 JA 1/16W
R3166	401 105 0405	MT-GLAZE 100 JA 1/16W
R3167	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3168	401 105 4304	MT-GLAZE 330K JA 1/16W
R3169	401 105 0504	MT-GLAZE 1K JA 1/16W
R3170	401 105 3000	MT-GLAZE 220K JA 1/16W
R3171	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3173	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3174	401 113 9506	MT-GLAZE 620K JA 1/16W

Ref. No.	Part No.	Description
R3175	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R3176	401 219 1602	MT-GLAZE 100K FA 1/16W
R3177	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3178	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R3179	401 286 3400	MT-GLAZE 10 FA 1/16W
R3180	401 105 0603	MT-GLAZE 10K JA 1/16W
R3181	401 105 0504	MT-GLAZE 1K JA 1/16W
R3182	401 105 0504	MT-GLAZE 1K JA 1/16W
R3183	401 105 5202	MT-GLAZE 470 JA 1/16W
R3184	401 105 0504	MT-GLAZE 1K JA 1/16W
R3185	401 105 0504	MT-GLAZE 1K JA 1/16W
R3186	401 105 5202	MT-GLAZE 470 JA 1/16W
R3187	401 105 0504	MT-GLAZE 1K JA 1/16W
R3188	401 105 0504	MT-GLAZE 1K JA 1/16W
R3189	401 105 4007	MT-GLAZE 330 JA 1/16W
R3190	401 105 4007	MT-GLAZE 330 JA 1/16W
R3191	401 105 0405	MT-GLAZE 100 JA 1/16W
R3193	401 105 0702	MT-GLAZE 100K JA 1/16W
R4101	401 217 5404	MT-GLAZE 47K FA 1/16W
R4102	401 105 0504	MT-GLAZE 1K JA 1/16W
R4103	401 105 0504	MT-GLAZE 1K JA 1/16W
R4104	401 105 0405	MT-GLAZE 100 JA 1/16W
R4105	401 105 0405	MT-GLAZE 100 JA 1/16W
R4106	401 105 0405	MT-GLAZE 100 JA 1/16W
R4108	401 105 0603	MT-GLAZE 10K JA 1/16W
R4109	401 105 0603	MT-GLAZE 10K JA 1/16W
R4110	401 105 0603	MT-GLAZE 10K JA 1/16W
R4111	401 105 0603	MT-GLAZE 10K JA 1/16W
R4112	401 114 0502	MT-GLAZE 2.2M JA 1/16W
R4113	401 105 0603	MT-GLAZE 10K JA 1/16W
R4116	401 105 0405	MT-GLAZE 100 JA 1/16W
R4117	401 105 0405	MT-GLAZE 100 JA 1/16W
R4118	401 105 0405	MT-GLAZE 100 JA 1/16W
R4119	401 105 0900	MT-GLAZE 120 JA 1/16W
R4122	401 105 0405	MT-GLAZE 100 JA 1/16W
R4124	401 105 0405	MT-GLAZE 100 JA 1/16W
R4125	401 105 0405	MT-GLAZE 100 JA 1/16W
R4126	401 217 4100	MT-GLAZE 22K FA 1/16W
R4127	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4128	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R4182	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4183	401 105 0504	MT-GLAZE 1K JA 1/16W
R4184	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R4186	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R4187	401 105 1907	MT-GLAZE 180 JA 1/16W
R4188	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R4190	401 105 2904	MT-GLAZE 22K JA 1/16W
R4191	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4196	401 105 0504	MT-GLAZE 1K JA 1/16W
R4197	401 105 0504	MT-GLAZE 1K JA 1/16W
R5100	401 105 2904	MT-GLAZE 22K JA 1/16W
R5101	401 105 1709	MT-GLAZE 150K JA 1/16W
R5102	401 105 0504	MT-GLAZE 1K JA 1/16W
R5103	401 105 0702	MT-GLAZE 100K JA 1/16W
R5104	401 105 4205	MT-GLAZE 33K JA 1/16W
R5105	401 105 0702	MT-GLAZE 100K JA 1/16W
R5106	401 105 8005	MT-GLAZE 1M JA 1/16W
R5107	401 105 5905	MT-GLAZE 560 JA 1/16W
R5108	401 105 7305	MT-GLAZE 820 JA 1/16W
R5109	401 217 3905	MT-GLAZE 3.3K FA 1/16W
R5110	401 105 8203	MT-GLAZE 68K JA 1/16W
R5111	401 217 3905	MT-GLAZE 3.3K FA 1/16W
R5113	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R5116	401 105 7305	MT-GLAZE 820 JA 1/16W
R5117	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5118	401 105 0504	MT-GLAZE 1K JA 1/16W
R5119	401 105 0603	MT-GLAZE 10K JA 1/16W
R5120	401 105 4700	MT-GLAZE 39K JA 1/16W
R5121	401 105 0603	MT-GLAZE 10K JA 1/16W
R5122	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5123	401 105 0504	MT-GLAZE 1K JA 1/16W
R5124	401 105 0405	MT-GLAZE 100 JA 1/16W
R5125	401 105 0504	MT-GLAZE 1K JA 1/16W
R5126	401 105 0603	MT-GLAZE 10K JA 1/16W
R5127	401 105 6506	MT-GLAZE 680 JA 1/16W
R5128	401 105 0504	MT-GLAZE 1K JA 1/16W
R5129	401 105 0603	MT-GLAZE 10K JA 1/16W
R5130	401 105 2904	MT-GLAZE 22K JA 1/16W
R5131	401 105 0504	MT-GLAZE 1K JA 1/16W
R5132	401 105 0603	MT-GLAZE 10K JA 1/16W
R5133	401 105 0405	MT-GLAZE 100 JA 1/16W
R5134	401 105 0405	MT-GLAZE 100 JA 1/16W
R5135	401 105 0405	MT-GLAZE 100 JA 1/16W
R5136	401 105 0405	MT-GLAZE 100 JA 1/16W
R5137	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5138	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5139	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5140	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5141	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5142	401 105 0504	MT-GLAZE 1K JA 1/16W
R5143	401 105 5202	MT-GLAZE 470 JA 1/16W
R5150	401 105 4700	MT-GLAZE 39K JA 1/16W
R5160	401 105 0504	MT-GLAZE 1K JA 1/16W
R5170	401 105 0504	MT-GLAZE 1K JA 1/16W
R5180	401 203 9904	MT-GLAZE 4.7K FA 1/16W
R5181	401 105 5905	MT-GLAZE 560 JA 1/16W
R5182	401 105 5905	MT-GLAZE 560 JA 1/16W
R5183	401 105 5905	MT-GLAZE 560 JA 1/16W
R5184	401 113 4402	MT-GLAZE 75 JA 1/16W
R5185	401 105 0504	MT-GLAZE 1K JA 1/16W
R5187	401 113 4402	MT-GLAZE 75 JA 1/16W
R5188	401 105 0504	MT-GLAZE 1K JA 1/16W
R5191	401 113 4402	MT-GLAZE 75 JA 1/16W
R5192	401 105 0504	MT-GLAZE 1K JA 1/16W
COIL		
L101	645 014 2659	FILTER,EMI 10MHZ
L102	645 014 2659	FILTER,EMI 10MHZ
L1101	645 004 1587	INDUCTOR,4.7U J
L1104	645 026 1008	INDUCTOR,3.3U M
L1131	645 026 1008	INDUCTOR,3.3U M
L1151	645 044 3626	FILTER,LP 7MHZ
L1161	645 044 3626	FILTER,LP 7MHZ
L1162	645 021 1607	INDUCTOR,10U J
L121	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L122	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L123	645 002 3910	FILTER,EMI 100MHZ
L124	645 002 3910	FILTER,EMI 100MHZ
L125	645 014 2659	FILTER,EMI 10MHZ
L131	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L132	645 002 3910	FILTER,EMI 100MHZ
L133	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L134	645 002 3910	FILTER,EMI 100MHZ
L161	645 044 3626	FILTER,LP 7MHZ
L2101	645 026 1008	INDUCTOR,3.3U M
L2102	645 026 1008	INDUCTOR,3.3U M
L2191	645 021 1614	INDUCTOR,12U J
L5101	645 026 1008	INDUCTOR,3.3U M
L5102	645 021 1713	INDUCTOR,39U J
L5103	645 021 1706	INDUCTOR,33U J
L5104	645 021 1737	INDUCTOR,47U J
L5121	645 021 1713	INDUCTOR,39U J
DIODE		
D101	407 221 7106	ZENER DIODE UDZS-TE-1712B
D102	407 221 7106	ZENER DIODE UDZS-TE-1712B
D103	407 221 7106	ZENER DIODE UDZS-TE-1712B
D104	407 221 7106	ZENER DIODE UDZS-TE-1712B
D1101	407 149 0807	DIODE 1SS355-TE-17
D1121	407 149 0807	DIODE 1SS355-TE-17
D121	407 209 1201	ZD UDZS-TE-176.2B
D122	407 209 1201	ZD UDZS-TE-176.2B
D123	407 209 1201	ZD UDZS-TE-176.2B
D124	407 209 1201	ZD UDZS-TE-176.2B
D125	407 221 7106	ZENER DIODE UDZS-TE-1712B
D131	407 209 1201	ZD UDZS-TE-176.2B
D132	407 209 1201	ZD UDZS-TE-176.2B
D133	407 209 1201	ZD UDZS-TE-176.2B
D134	407 209 1201	ZD UDZS-TE-176.2B
D2140	407 206 6308	ZD UDZS-TE-175.1B
D3121	407 149 0807	DIODE 1SS355-TE-17
D3131	407 206 6308	ZD UDZS-TE-175.1B
D4181	407 149 0807	DIODE 1SS355-TE-17
D4182	407 149 0807	DIODE 1SS355-TE-17
D5101	407 216 7609	VARACTOR DI HVU17
MISCELLANEOUS		
TP141	645 036 5010	TERMINAL
TP142	645 036 5010	TERMINAL
TP3141	645 036 5010	TERMINAL
TP3142	645 036 5010	TERMINAL
TP5101	645 036 5010	TERMINAL
TP5102	645 036 5010	TERMINAL
TP5103	645 036 5010	TERMINAL
TP5181	645 036 5010	TERMINAL
TP5182	645 036 5010	TERMINAL
TP5183	645 036 5010	TERMINAL
K101	645 040 9974	JACK,RCA-2
K121	645 040 9967	SOCKET,DIN 4P

Ref. No.	Part No.	Description
K131	645 031 6067	SOCKET,BNC 2P
K3101	645 041 6071	SOCKET,I/O 176P
K3101A	610 289 9795	JOINT GUIDE BUSH ML6A
K3101B	610 289 9795	JOINT GUIDE BUSH ML6A
X1101	645 028 5622	OSC,CRYSTAL 20.000MHZ
	645 028 5646	OSC,CRYSTAL 20.000MHZ
X3141	610 012 0532	OSC,CERAMIC 500.0KHZ
X3142	645 024 8788	OSC,CRYSTAL 3.579545MHZ
	645 025 1108	OSC,CRYSTAL 3.579545MHZ
X3143	645 024 8801	OSC,CRYSTAL 4.433619MHZ
	645 025 1122	OSC,CRYSTAL 4.433619MHZ
X3145	645 028 1372	OSC,CRYSTAL 3.575611MHZ
X3146	645 028 1365	OSC,CRYSTAL 3.582056MHZ
X5101	645 040 7819	OSC,CRYSTAL 17.734475MHZ

■ Assembly PWB NAIN

	610 312 0485	**ASSY,PWB,MAIN M4RA**
TRANSISTOR		
Q1422	405 014 4509	TR 2SC2412K T146 R
Q1423	405 014 4509	TR 2SC2412K T146 R
Q1601	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1602	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1833	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1834	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1835	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1836	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1881	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q201	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q211	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q221	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2501	405 002 8304	TR 2SA1203-Y-TE12L
Q2502	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2511	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q271	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q295	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4861	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4862	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5630	405 156 0209	TR 2SK2376
Q5841	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5851	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB

Ref. No.	Part No.	Description
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9801	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
INTEGRATED CIRCUIT		
IC1302	409 301 5309	IC TC7S32FU-TE85L
IC1311	409 339 3605	IC 24LC16BT/SN-T
IC1331	409 501 9107	IC ICS512MT
IC1341	409 501 9107	IC ICS512MT
IC1351	410 512 6405	IC MBM29LV800TA90C421S
	410 512 7204	IC MBM29LV800TA90C421
IC1352	410 352 8508	IC IDT71V016S15PHTR
	410 397 0406	IC IC61LV6416-15T
IC1362	409 534 1703	IC SI-3025LSA-TL
IC1401	409 539 8905	IC PQ033EZ01ZP
IC1411	409 499 1800	IC PQ018EZ01ZP
IC1421	409 398 1901	IC L88MS05TL-TL
IC1471	409 422 5806	IC M62398FP
IC1501	409 554 1202	IC L3E06100D0A
IC1530	409 246 9707	IC LA6358NM-TE-L
IC1531	409 554 1202	IC L3E06100D0A
IC1560	409 051 2900	IC TC4053BF(EL)
IC1561	409 554 1202	IC L3E06100D0A
IC1621	409 390 0001	IC LM7171AIMX
	409 486 7709	IC LM7171BIMX
IC1631	409 343 0201	IC LT1206CS8
IC1801	409 475 3705	IC M66500FP
IC1811	409 339 3605	IC 24LC16BT/SN-T
IC1821	410 364 6905	IC TC74ACT138FT-EL
IC1822	410 367 1402	IC SN74LVC374APW
IC1823	409 510 2403	IC TC74AC139FT
IC1824	409 301 5309	IC TC7S32FU-TE85L
IC1825	409 418 8606	IC M66230FP-200D
IC1826	409 418 8606	IC M66230FP-200D
IC1827	410 356 8009	IC SN74LV14APWR
IC1829	410 364 6905	IC TC74ACT138FT-EL
IC1851	409 421 8808	IC M62420FP
IC1871	409 390 6201	IC EL2244CS
IC1881	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC201	409 461 7304	IC AD8057ART
IC211	409 461 7304	IC AD8057ART
IC2201	410 494 2402	IC AD9888KS-170-0308
IC221	409 461 7304	IC AD8057ART
IC2251	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC2261	409 490 8006	IC CXA2151Q
IC2291	409 416 6505	IC BA05FP-E2
IC2301	410 413 0700	IC XC2S200-5FG256C
IC2302	409 534 1703	IC SI-3025LSA-TL
IC2561	409 481 8602	IC LM76CHMX-5
IC281	409 357 6602	IC LT1260CS
IC301	409 502 4903	IC PW365-20U
IC401	409 554 1301	IC L3E07070K0A
IC4201	410 426 8106	IC TC240C4FTB-C006(O)
IC4231	409 444 8700	IC ICS1523M-ER
IC4251	409 534 1703	IC SI-3025LSA-TL
IC4252	410 351 4808	IC LT1587CM-3.3
IC4261	410 401 7506	IC TC74VCX16374FT
IC4271	410 401 7506	IC TC74VCX16374FT
IC4281	410 401 7506	IC TC74VCX16374FT
IC4291	410 401 7407	IC TC74VCX244FT
IC4292	409 489 5009	IC TC74VCX04FT
IC4811	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4821	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4831	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4832	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4841	410 362 6600	IC TC74ACT541FT
IC4842	410 362 6600	IC TC74ACT541FT
IC4851	409 330 2508	IC TC7SH04FU-(TE85L)
	410 356 7606	IC SN74AHC1G04HDCKR
IC4855	410 356 7903	IC SN74AHC1G08HDCKR
IC4861	409 416 6505	IC BA05FP-E2
IC4871	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4881	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC501	409 554 1202	IC L3E06100D0A
IC531	409 554 1202	IC L3E06100D0A
IC561	409 554 1202	IC L3E06100D0A
IC5631	409 461 7809	IC PQ20WZ11
IC5641	409 461 7809	IC PQ20WZ11
IC5651	409 461 7809	IC PQ20WZ11
IC6301	410 365 4603	IC MS82V16520-8AGA
IC6321	410 365 4603	IC MS82V16520-8AGA
IC6341	410 365 4603	IC MS82V16520-8AGA
IC6361	410 365 4603	IC MS82V16520-8AGA
IC801	410 486 5503	IC HD64F7045F28-C307
IC802	409 344 1900	IC MN1382-Q-TX
IC8201	410 321 8300	IC TC74VCX16244FT
IC8211	410 321 8300	IC TC74VCX16244FT
IC8221	410 321 8300	IC TC74VCX16244FT
IC8251	410 401 7407	IC TC74VCX244FT
IC8252	409 330 2508	IC TC7SH04FU-(TE85L)
	410 356 7606	IC SN74AHC1G04HDCKR
IC8253	409 439 8906	IC TC7WH125FU
IC8254	409 330 2508	IC TC7SH04FU-(TE85L)
	410 356 7606	IC SN74AHC1G04HDCKR
IC8261	410 337 0602	IC HD74LVC14T
IC8271	409 522 7502	IC TC7SA08FU
IC871	410 512 6009	IC MBM29LV160BE-90-C309AS
	410 512 6900	IC MBM29LV160BE-90-C309A
IC872	410 365 5600	IC SN74LVCC4245APWR
IC873	410 365 5600	IC SN74LVCC4245APWR
IC874	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC875	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC876	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC887	409 461 7304	IC AD8057ART
IC892	410 367 1501	IC M5M51008CFP-70HI
	410 415 5208	IC M5M51008DFP-70HI
IC894	409 330 2508	IC TC7SH04FU-(TE85L)
	410 356 7606	IC SN74AHC1G04HDCKR
IC9401	410 403 7900	IC LC24085BT-UG4
IC9501	410 468 8706	IC UPD65943GC-100-7EA
IC9801	409 521 4502	IC ML60851DTB
CAPACITOR		
C1311	403 280 0508	ELECT 470U M 4V
C1312	403 164 0204	CERAMIC 0.1U Z 25V
C1331	403 157 6602	CERAMIC 470P K 50V
C1332	403 149 9208	CERAMIC 0.01U Z 50V
C1341	403 157 6602	CERAMIC 470P K 50V
C1342	403 149 9208	CERAMIC 0.01U Z 50V
C1351	403 280 0508	ELECT 470U M 4V
C1352	403 164 0204	CERAMIC 0.1U Z 25V
C1354	403 164 0204	CERAMIC 0.1U Z 25V
C1365	403 280 0508	ELECT 470U M 4V
C1367	403 280 0508	ELECT 470U M 4V
C1368	403 164 0204	CERAMIC 0.1U Z 25V
C1376	403 164 0204	CERAMIC 0.1U Z 25V
C1377	403 164 0204	CERAMIC 0.1U Z 25V
C1401	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1402	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1403	403 164 0204	CERAMIC 0.1U Z 25V
C1411	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1413	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1414	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1416	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1417	403 164 0204	CERAMIC 0.1U Z 25V
C1421	403 304 3300	ELECT 47U M 16V
C1423	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1424	403 164 0204	CERAMIC 0.1U Z 25V

Ref. No.	Part No.	Description
C1471	403 298 9609	CERAMIC 0.1U K 16V
C1472	403 298 9609	CERAMIC 0.1U K 16V
C1473	403 298 9609	CERAMIC 0.1U K 16V
C1474	403 215 2201	CERAMIC 0.01U K 50V
C1475	403 215 2201	CERAMIC 0.01U K 50V
C1476	403 215 2201	CERAMIC 0.01U K 50V
C1477	403 215 2201	CERAMIC 0.01U K 50V
C1478	403 215 2201	CERAMIC 0.01U K 50V
C1479	403 215 2201	CERAMIC 0.01U K 50V
C1480	403 215 2201	CERAMIC 0.01U K 50V
C1501	403 162 3900	ELECT 47U M 4V
C1502	403 164 0204	CERAMIC 0.1U Z 25V
C1503	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1504	403 298 9609	CERAMIC 0.1U K 16V
C1506	403 298 9609	CERAMIC 0.1U K 16V
C1508	403 298 9609	CERAMIC 0.1U K 16V
C1509	403 298 9609	CERAMIC 0.1U K 16V
C1511	403 298 9609	CERAMIC 0.1U K 16V
C1512	403 298 9609	CERAMIC 0.1U K 16V
C1513	403 298 9609	CERAMIC 0.1U K 16V
C1514	403 298 9609	CERAMIC 0.1U K 16V
C1516	403 298 9609	CERAMIC 0.1U K 16V
C1517	403 298 9609	CERAMIC 0.1U K 16V
C1518	403 298 9609	CERAMIC 0.1U K 16V
C1519	403 298 9609	CERAMIC 0.1U K 16V
C1521	403 298 9609	CERAMIC 0.1U K 16V
C1522	403 298 9609	CERAMIC 0.1U K 16V
C1523	403 157 2901	CERAMIC 47P J 50V
C1531	403 162 3900	ELECT 47U M 4V
C1532	403 164 0204	CERAMIC 0.1U Z 25V
C1533	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1534	403 298 9609	CERAMIC 0.1U K 16V
C1536	403 298 9609	CERAMIC 0.1U K 16V
C1538	403 298 9609	CERAMIC 0.1U K 16V
C1539	403 298 9609	CERAMIC 0.1U K 16V
C1541	403 298 9609	CERAMIC 0.1U K 16V
C1542	403 298 9609	CERAMIC 0.1U K 16V
C1543	403 298 9609	CERAMIC 0.1U K 16V
C1544	403 298 9609	CERAMIC 0.1U K 16V
C1546	403 298 9609	CERAMIC 0.1U K 16V
C1547	403 298 9609	CERAMIC 0.1U K 16V
C1548	403 298 9609	CERAMIC 0.1U K 16V
C1549	403 298 9609	CERAMIC 0.1U K 16V
C1551	403 298 9609	CERAMIC 0.1U K 16V
C1552	403 298 9609	CERAMIC 0.1U K 16V
C1553	403 157 2901	CERAMIC 47P J 50V
C1561	403 162 3900	ELECT 47U M 4V
C1562	403 164 0204	CERAMIC 0.1U Z 25V
C1563	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1564	403 298 9609	CERAMIC 0.1U K 16V
C1566	403 298 9609	CERAMIC 0.1U K 16V
C1568	403 298 9609	CERAMIC 0.1U K 16V
C1569	403 298 9609	CERAMIC 0.1U K 16V
C1571	403 298 9609	CERAMIC 0.1U K 16V
C1572	403 298 9609	CERAMIC 0.1U K 16V
C1573	403 298 9609	CERAMIC 0.1U K 16V
C1574	403 298 9609	CERAMIC 0.1U K 16V
C1576	403 298 9609	CERAMIC 0.1U K 16V
C1577	403 298 9609	CERAMIC 0.1U K 16V
C1578	403 298 9609	CERAMIC 0.1U K 16V
C1579	403 298 9609	CERAMIC 0.1U K 16V
C1581	403 298 9609	CERAMIC 0.1U K 16V
C1582	403 298 9609	CERAMIC 0.1U K 16V
C1583	403 157 2901	CERAMIC 47P J 50V
C1591	403 298 9609	CERAMIC 0.1U K 16V
C1592	403 298 9609	CERAMIC 0.1U K 16V
C1594	403 298 9609	CERAMIC 0.1U K 16V
C1601	403 215 2201	CERAMIC 0.01U K 50V
C1602	403 215 2201	CERAMIC 0.01U K 50V
C1603	403 215 2201	CERAMIC 0.01U K 50V
C1611	403 157 6701	CERAMIC 560P K 50V
C1616	403 157 6701	CERAMIC 560P K 50V
C1621	403 164 0204	CERAMIC 0.1U Z 25V
C1622	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1623	403 157 3601	CERAMIC 100P J 50V
C1631	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1632	403 164 0204	CERAMIC 0.1U Z 25V
C1633	403 157 3601	CERAMIC 100P J 50V
C1634	403 149 9208	CERAMIC 0.01U Z 50V
C1801	403 164 0204	CERAMIC 0.1U Z 25V
C1802	403 164 0204	CERAMIC 0.1U Z 25V
C1803	403 164 0204	CERAMIC 0.1U Z 25V
C1804	403 280 0805	ELECT 330U M 6.3V
C1811	403 164 0204	CERAMIC 0.1U Z 25V
C1821	403 164 0204	CERAMIC 0.1U Z 25V
C1822	403 164 0204	CERAMIC 0.1U Z 25V
C1823	403 164 0204	CERAMIC 0.1U Z 25V
C1824	403 164 0204	CERAMIC 0.1U Z 25V
C1826	403 164 0204	CERAMIC 0.1U Z 25V
C1850	403 280 1604	ELECT 220U M 16V
C1851	403 267 0606	NP-ELECT 4.7U M 16V
C1852	403 280 1604	ELECT 220U M 16V
C1853	403 215 2904	CERAMIC 0.022U K 25V
C1854	403 272 5603	CERAMIC 0.033U K 16V
C1856	403 348 5803	CERAMIC 0.47U K 10V
C1857	403 149 9208	CERAMIC 0.01U Z 50V
C1858	403 280 1604	ELECT 220U M 16V
C1859	403 164 0204	CERAMIC 0.1U Z 25V
C1861	403 272 5603	CERAMIC 0.033U K 16V
C1862	403 348 5803	CERAMIC 0.47U K 10V
C1863	403 215 2904	CERAMIC 0.022U K 25V
C1864	403 280 1604	ELECT 220U M 16V
C1865	403 164 0204	CERAMIC 0.1U Z 25V
C1866	403 280 1604	ELECT 220U M 16V
C1867	403 267 0606	NP-ELECT 4.7U M 16V
C1871	403 157 1904	CERAMIC 10P D 50V
C1872	403 348 5803	CERAMIC 0.47U K 10V
C1873	403 157 1904	CERAMIC 10P D 50V
C1881	403 164 0204	CERAMIC 0.1U Z 25V
C1893	403 164 0204	CERAMIC 0.1U Z 25V
C1894	403 164 0204	CERAMIC 0.1U Z 25V
C1895	403 164 0204	CERAMIC 0.1U Z 25V
C202	403 164 0204	CERAMIC 0.1U Z 25V
C205	403 157 1904	CERAMIC 10P D 50V
C206	403 164 0204	CERAMIC 0.1U Z 25V
C207	403 267 0804	NP-ELECT 47U M 6.3V
C209	403 155 1500	CERAMIC 180P J 50V
C211	403 157 1904	CERAMIC 10P D 50V
C214	403 157 1706	CERAMIC 8P D 50V
C215	403 157 1706	CERAMIC 8P D 50V
C216	403 157 1706	CERAMIC 8P D 50V
C217	403 267 0804	NP-ELECT 47U M 6.3V
C219	403 155 1500	CERAMIC 180P J 50V
C2201	403 280 0508	ELECT 470U M 4V
C2202	403 164 0204	CERAMIC 0.1U Z 25V
C2203	403 164 0204	CERAMIC 0.1U Z 25V
C2204	401 105 0306	MT-GLAZE 10 JA 1/16W
C2205	403 283 6309	CERAMIC 1U Z 10V
C2206	403 164 0204	CERAMIC 0.1U Z 25V
C2207	403 164 0204	CERAMIC 0.1U Z 25V
C2208	403 283 6309	CERAMIC 1U Z 10V
C2209	403 164 0204	CERAMIC 0.1U Z 25V
C221	403 157 1904	CERAMIC 10P D 50V
C2211	401 105 0306	MT-GLAZE 10 JA 1/16W
C2212	403 283 6309	CERAMIC 1U Z 10V
C2213	403 164 0204	CERAMIC 0.1U Z 25V
C2214	403 164 0204	CERAMIC 0.1U Z 25V
C2215	403 283 6309	CERAMIC 1U Z 10V
C2216	401 105 0306	MT-GLAZE 10 JA 1/16W
C2217	403 283 6309	CERAMIC 1U Z 10V
C2218	403 164 0204	CERAMIC 0.1U Z 25V
C2219	403 283 6309	CERAMIC 1U Z 10V
C2221	403 283 6309	CERAMIC 1U Z 10V
C2222	403 283 6309	CERAMIC 1U Z 10V
C2223	403 283 6309	CERAMIC 1U Z 10V
C2224	403 283 6309	CERAMIC 1U Z 10V
C2225	403 283 6309	CERAMIC 1U Z 10V
C2226	403 157 7203	CERAMIC 3900P K 50V
C2227	403 306 5401	CERAMIC 0.039U K 16V
C2228	403 283 6309	CERAMIC 1U Z 10V
C2229	403 283 6309	CERAMIC 1U Z 10V
C2231	403 283 6309	CERAMIC 1U Z 10V
C2232	403 283 6309	CERAMIC 1U Z 10V
C2233	403 283 6309	CERAMIC 1U Z 10V
C2234	403 283 6309	CERAMIC 1U Z 10V
C2235	403 283 6309	CERAMIC 1U Z 10V
C2236	403 283 6309	CERAMIC 1U Z 10V
C2237	403 283 6309	CERAMIC 1U Z 10V
C2238	403 157 6602	CERAMIC 470P K 50V
C2251	403 164 0204	CERAMIC 0.1U Z 25V
C2252	403 164 0204	CERAMIC 0.1U Z 25V

Electrical Parts List

Ref. No.	Part No.	Description
C2253	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2254	403 164 0204	CERAMIC 0.1U Z 25V
C2255	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2256	403 164 0204	CERAMIC 0.1U Z 25V
C2257	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2260	403 348 5803	CERAMIC 0.47U K 10V
C2262	403 348 5803	CERAMIC 0.47U K 10V
C2263	403 164 0204	CERAMIC 0.1U Z 25V
C2264	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2265	403 348 5803	CERAMIC 0.47U K 10V
C2266	403 348 5803	CERAMIC 0.47U K 10V
C2267	403 348 5803	CERAMIC 0.47U K 10V
C2268	403 348 5803	CERAMIC 0.47U K 10V
C2269	403 348 5803	CERAMIC 0.47U K 10V
C227	403 267 0804	NP-ELECT 47U M 6.3V
C2271	403 348 5803	CERAMIC 0.47U K 10V
C2272	403 348 5803	CERAMIC 0.47U K 10V
C2273	403 348 5803	CERAMIC 0.47U K 10V
C2274	403 348 5803	CERAMIC 0.47U K 10V
C2275	403 348 5803	CERAMIC 0.47U K 10V
C2276	403 348 5803	CERAMIC 0.47U K 10V
C2277	403 348 5803	CERAMIC 0.47U K 10V
C2278	403 348 5803	CERAMIC 0.47U K 10V
C2279	403 348 5803	CERAMIC 0.47U K 10V
C2281	403 348 5803	CERAMIC 0.47U K 10V
C2282	403 164 0204	CERAMIC 0.1U Z 25V
C2284	403 348 5803	CERAMIC 0.47U K 10V
C2285	403 348 5803	CERAMIC 0.47U K 10V
C2286	403 348 5803	CERAMIC 0.47U K 10V
C2287	403 155 4204	CERAMIC 15P J 50V
C2288	403 348 5803	CERAMIC 0.47U K 10V
C2289	403 215 2201	CERAMIC 0.01U K 50V
C229	403 155 1500	CERAMIC 180P J 50V
C2290	403 298 9609	CERAMIC 0.1U K 16V
C2291	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2292	403 164 0204	CERAMIC 0.1U Z 25V
C2301	403 164 0204	CERAMIC 0.1U Z 25V
C2302	403 164 0204	CERAMIC 0.1U Z 25V
C2303	403 164 0204	CERAMIC 0.1U Z 25V
C2304	403 164 0204	CERAMIC 0.1U Z 25V
C2305	403 164 0204	CERAMIC 0.1U Z 25V
C2306	403 164 0204	CERAMIC 0.1U Z 25V
C2307	403 164 0204	CERAMIC 0.1U Z 25V
C2308	403 164 0204	CERAMIC 0.1U Z 25V
C2310	403 157 1706	CERAMIC 8P D 50V
C2311	403 164 0204	CERAMIC 0.1U Z 25V
C2312	403 280 0508	ELECT 470U M 4V
C2313	403 280 0508	ELECT 470U M 4V
C2315	403 280 0508	ELECT 470U M 4V
C2316	403 164 0204	CERAMIC 0.1U Z 25V
C233	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C235	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C2501	403 321 2607	ELECT 10U M 16V
C2506	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C2507	403 164 0204	CERAMIC 0.1U Z 25V
C2521	403 164 0204	CERAMIC 0.1U Z 25V
C2522	403 164 0204	CERAMIC 0.1U Z 25V
C2523	403 164 0204	CERAMIC 0.1U Z 25V
C2524	403 322 1807	ELECT 47U M 16V
C2525	403 164 0204	CERAMIC 0.1U Z 25V
C2526	403 164 0204	CERAMIC 0.1U Z 25V
C2528	403 164 0204	CERAMIC 0.1U Z 25V
C2529	403 162 5300	ELECT 4.7U M 25V
C2531	403 164 0204	CERAMIC 0.1U Z 25V
C2532	403 164 0204	CERAMIC 0.1U Z 25V
C2533	403 164 0204	CERAMIC 0.1U Z 25V
C2534	403 322 1807	ELECT 47U M 16V
C2535	403 164 0204	CERAMIC 0.1U Z 25V
C2536	403 164 0204	CERAMIC 0.1U Z 25V
C2538	403 164 0204	CERAMIC 0.1U Z 25V
C2539	403 162 5300	ELECT 4.7U M 25V
C2541	403 164 0204	CERAMIC 0.1U Z 25V
C2542	403 164 0204	CERAMIC 0.1U Z 25V
C2543	403 164 0204	CERAMIC 0.1U Z 25V
C2548	403 164 0204	CERAMIC 0.1U Z 25V
C2549	403 162 5300	ELECT 4.7U M 25V
C2561	403 164 0204	CERAMIC 0.1U Z 25V
C2576	403 164 0204	CERAMIC 0.1U Z 25V
C2577	403 322 1807	ELECT 47U M 16V
C2578	403 164 0204	CERAMIC 0.1U Z 25V
C281	403 164 0204	CERAMIC 0.1U Z 25V
C282	403 164 0204	CERAMIC 0.1U Z 25V
C283	403 175 4505	ELECT 47U M 6.3V
C284	403 164 0204	CERAMIC 0.1U Z 25V
C285	403 164 0204	CERAMIC 0.1U Z 25V
C286	403 175 4505	ELECT 47U M 6.3V
C287	403 164 0204	CERAMIC 0.1U Z 25V
C288	403 175 4505	ELECT 47U M 6.3V
C311	403 280 0508	ELECT 470U M 4V
C312	403 164 0204	CERAMIC 0.1U Z 25V
C313	403 280 0508	ELECT 470U M 4V
C314	403 164 0204	CERAMIC 0.1U Z 25V
C315	403 164 0204	CERAMIC 0.1U Z 25V
C316	403 164 0204	CERAMIC 0.1U Z 25V
C317	403 164 0204	CERAMIC 0.1U Z 25V
C318	403 164 0204	CERAMIC 0.1U Z 25V
C319	403 164 0204	CERAMIC 0.1U Z 25V
C321	403 164 0204	CERAMIC 0.1U Z 25V
C3262	403 164 0204	CERAMIC 0.1U Z 25V
C401	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C402	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C403	403 355 9900	CERAMIC 2.2U K 10V
C404	403 215 2201	CERAMIC 0.01U K 50V
C406	403 215 2201	CERAMIC 0.01U K 50V
C407	403 215 2201	CERAMIC 0.01U K 50V
C408	403 215 2201	CERAMIC 0.01U K 50V
C409	403 215 2201	CERAMIC 0.01U K 50V
C411	403 215 2201	CERAMIC 0.01U K 50V
C412	403 215 2201	CERAMIC 0.01U K 50V
C413	403 215 2201	CERAMIC 0.01U K 50V
C414	403 215 2201	CERAMIC 0.01U K 50V
C416	403 215 2201	CERAMIC 0.01U K 50V
C417	403 215 2201	CERAMIC 0.01U K 50V
C418	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C419	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C4201	403 164 0204	CERAMIC 0.1U Z 25V
C4202	403 164 0204	CERAMIC 0.1U Z 25V
C4203	403 164 0204	CERAMIC 0.1U Z 25V
C4204	403 164 0204	CERAMIC 0.1U Z 25V
C4206	403 164 0204	CERAMIC 0.1U Z 25V
C4207	403 164 0204	CERAMIC 0.1U Z 25V
C4208	403 164 0204	CERAMIC 0.1U Z 25V
C4209	403 164 0204	CERAMIC 0.1U Z 25V
C421	403 215 2201	CERAMIC 0.01U K 50V
C4211	403 164 0204	CERAMIC 0.1U Z 25V
C4212	403 164 0204	CERAMIC 0.1U Z 25V
C4213	403 164 0204	CERAMIC 0.1U Z 25V
C4214	403 164 0204	CERAMIC 0.1U Z 25V
C4216	403 164 0204	CERAMIC 0.1U Z 25V
C4217	403 164 0204	CERAMIC 0.1U Z 25V
C4218	403 164 0204	CERAMIC 0.1U Z 25V
C4219	403 164 0204	CERAMIC 0.1U Z 25V
C422	403 215 2201	CERAMIC 0.01U K 50V
C4221	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C4222	403 164 0204	CERAMIC 0.1U Z 25V
C4223	403 164 0204	CERAMIC 0.1U Z 25V
C423	403 215 2201	CERAMIC 0.01U K 50V
C4231	403 304 2105	ELECT 47U M 6.3V
C4232	403 164 0204	CERAMIC 0.1U Z 25V
C4233	403 304 2105	ELECT 47U M 6.3V
C4234	403 164 0204	CERAMIC 0.1U Z 25V
C4236	403 155 1609	CERAMIC 33P J 50V
C4237	403 157 7302	CERAMIC 6800P K 50V
C4238	403 304 2105	ELECT 47U M 6.3V
C4239	403 164 0204	CERAMIC 0.1U Z 25V
C424	403 215 2201	CERAMIC 0.01U K 50V
C4241	403 164 0204	CERAMIC 0.1U Z 25V
C4242	403 164 0204	CERAMIC 0.1U Z 25V
C4251	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C4252	403 164 0204	CERAMIC 0.1U Z 25V
C4253	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V

Electrical Parts List

Ref. No.	Part No.	Description
C4254	403 164 0204	CERAMIC 0.1U Z 25V
C4256	403 280 0805	ELECT 330U M 6.3V
C4257	403 164 0204	CERAMIC 0.1U Z 25V
C4258	403 164 0204	CERAMIC 0.1U Z 25V
C426	403 215 2201	CERAMIC 0.01U K 50V
C4261	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C4262	403 164 0204	CERAMIC 0.1U Z 25V
C4263	403 164 0204	CERAMIC 0.1U Z 25V
C427	403 215 2201	CERAMIC 0.01U K 50V
C4272	403 164 0204	CERAMIC 0.1U Z 25V
C4273	403 164 0204	CERAMIC 0.1U Z 25V
C428	403 215 2201	CERAMIC 0.01U K 50V
C4282	403 164 0204	CERAMIC 0.1U Z 25V
C4283	403 164 0204	CERAMIC 0.1U Z 25V
C429	403 215 2201	CERAMIC 0.01U K 50V
C4291	403 164 0204	CERAMIC 0.1U Z 25V
C431	403 215 2201	CERAMIC 0.01U K 50V
C432	403 215 2201	CERAMIC 0.01U K 50V
C441	403 215 2201	CERAMIC 0.01U K 50V
C442	403 215 2201	CERAMIC 0.01U K 50V
C443	403 215 2201	CERAMIC 0.01U K 50V
C4801	403 164 0204	CERAMIC 0.1U Z 25V
C4811	403 164 0204	CERAMIC 0.1U Z 25V
C4821	403 164 0204	CERAMIC 0.1U Z 25V
C4831	403 164 0204	CERAMIC 0.1U Z 25V
C4832	403 164 0204	CERAMIC 0.1U Z 25V
C4842	403 164 0204	CERAMIC 0.1U Z 25V
C4851	403 164 0204	CERAMIC 0.1U Z 25V
C4855	403 164 0204	CERAMIC 0.1U Z 25V
C4861	403 164 0204	CERAMIC 0.1U Z 25V
C4862	403 280 0805	ELECT 330U M 6.3V
C4871	403 164 0204	CERAMIC 0.1U Z 25V
C4881	403 164 0204	CERAMIC 0.1U Z 25V
C501	403 162 3900	ELECT 47U M 4V
C502	403 164 0204	CERAMIC 0.1U Z 25V
C503	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C504	403 298 9609	CERAMIC 0.1U K 16V
C506	403 298 9609	CERAMIC 0.1U K 16V
C508	403 298 9609	CERAMIC 0.1U K 16V
C509	403 298 9609	CERAMIC 0.1U K 16V
C511	403 298 9609	CERAMIC 0.1U K 16V
C512	403 298 9609	CERAMIC 0.1U K 16V
C513	403 298 9609	CERAMIC 0.1U K 16V
C514	403 298 9609	CERAMIC 0.1U K 16V
C518	403 298 9609	CERAMIC 0.1U K 16V
C519	403 298 9609	CERAMIC 0.1U K 16V
C521	403 298 9609	CERAMIC 0.1U K 16V
C522	403 298 9609	CERAMIC 0.1U K 16V
C523	403 157 2901	CERAMIC 47P J 50V
C531	403 162 3900	ELECT 47U M 4V
C532	403 164 0204	CERAMIC 0.1U Z 25V
C533	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C534	403 298 9609	CERAMIC 0.1U K 16V
C536	403 298 9609	CERAMIC 0.1U K 16V
C538	403 298 9609	CERAMIC 0.1U K 16V
C539	403 298 9609	CERAMIC 0.1U K 16V
C541	403 298 9609	CERAMIC 0.1U K 16V
C542	403 298 9609	CERAMIC 0.1U K 16V
C543	403 298 9609	CERAMIC 0.1U K 16V
C544	403 298 9609	CERAMIC 0.1U K 16V
C548	403 298 9609	CERAMIC 0.1U K 16V
C549	403 298 9609	CERAMIC 0.1U K 16V
C551	403 298 9609	CERAMIC 0.1U K 16V
C552	403 298 9609	CERAMIC 0.1U K 16V
C553	403 157 2901	CERAMIC 47P J 50V
C561	403 162 3900	ELECT 47U M 4V
C562	403 164 0204	CERAMIC 0.1U Z 25V
C563	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C5631	403 164 0204	CERAMIC 0.1U Z 25V
C5632	403 341 7507	ELECT 100U M 25V
C564	403 298 9609	CERAMIC 0.1U K 16V
C5641	403 341 7507	ELECT 100U M 25V
C5642	403 164 0204	CERAMIC 0.1U Z 25V
C5651	403 341 7507	ELECT 100U M 25V
C5652	403 164 0204	CERAMIC 0.1U Z 25V
C566	403 298 9609	CERAMIC 0.1U K 16V
C568	403 298 9609	CERAMIC 0.1U K 16V
C569	403 298 9609	CERAMIC 0.1U K 16V
C571	403 298 9609	CERAMIC 0.1U K 16V

Ref. No.	Part No.	Description
C572	403 298 9609	CERAMIC 0.1U K 16V
C573	403 298 9609	CERAMIC 0.1U K 16V
C574	403 298 9609	CERAMIC 0.1U K 16V
C578	403 298 9609	CERAMIC 0.1U K 16V
C579	403 298 9609	CERAMIC 0.1U K 16V
C581	403 298 9609	CERAMIC 0.1U K 16V
C5811	403 164 0204	CERAMIC 0.1U Z 25V
C5812	403 164 0204	CERAMIC 0.1U Z 25V
C5813	403 164 0204	CERAMIC 0.1U Z 25V
C582	403 298 9609	CERAMIC 0.1U K 16V
C583	403 157 2901	CERAMIC 47P J 50V
C5837	403 341 7507	ELECT 100U M 25V
C5853	403 164 0204	CERAMIC 0.1U Z 25V
C5864	403 164 0204	CERAMIC 0.1U Z 25V
C5865	403 341 7507	ELECT 100U M 25V
C5866	403 341 7507	ELECT 100U M 25V
C5867	403 164 0204	CERAMIC 0.1U Z 25V
C6300	403 164 0204	CERAMIC 0.1U Z 25V
C6301	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C6303	403 113 3805	CERAMIC 1000P K 50V
C6304	403 113 3805	CERAMIC 1000P K 50V
C6307	403 164 0204	CERAMIC 0.1U Z 25V
C6309	403 164 0204	CERAMIC 0.1U Z 25V
C6311	403 113 3805	CERAMIC 1000P K 50V
C6312	403 164 0204	CERAMIC 0.1U Z 25V
C6313	403 113 3805	CERAMIC 1000P K 50V
C6320	403 164 0204	CERAMIC 0.1U Z 25V
C6323	403 113 3805	CERAMIC 1000P K 50V
C6324	403 113 3805	CERAMIC 1000P K 50V
C6327	403 164 0204	CERAMIC 0.1U Z 25V
C6329	403 164 0204	CERAMIC 0.1U Z 25V
C6331	403 113 3805	CERAMIC 1000P K 50V
C6332	403 164 0204	CERAMIC 0.1U Z 25V
C6333	403 113 3805	CERAMIC 1000P K 50V
C6340	403 164 0204	CERAMIC 0.1U Z 25V
C6341	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C6343	403 113 3805	CERAMIC 1000P K 50V
C6344	403 113 3805	CERAMIC 1000P K 50V
C6347	403 164 0204	CERAMIC 0.1U Z 25V
C6349	403 164 0204	CERAMIC 0.1U Z 25V
C6350	403 113 3805	CERAMIC 1000P K 50V
C6352	403 164 0204	CERAMIC 0.1U Z 25V
C6353	403 113 3805	CERAMIC 1000P K 50V
C6360	403 164 0204	CERAMIC 0.1U Z 25V
C6363	403 113 3805	CERAMIC 1000P K 50V
C6364	403 113 3805	CERAMIC 1000P K 50V
C6367	403 164 0204	CERAMIC 0.1U Z 25V
C6369	403 164 0204	CERAMIC 0.1U Z 25V
C6371	403 113 3805	CERAMIC 1000P K 50V
C6372	403 164 0204	CERAMIC 0.1U Z 25V
C6373	403 113 3805	CERAMIC 1000P K 50V
C801	403 164 0204	CERAMIC 0.1U Z 25V
C802	403 164 0204	CERAMIC 0.1U Z 25V
C803	403 155 1609	CERAMIC 33P J 50V
C804	403 155 1609	CERAMIC 33P J 50V
C806	403 175 4505	ELECT 47U M 6.3V
C807	403 164 0204	CERAMIC 0.1U Z 25V
C808	403 157 6602	CERAMIC 470P K 50V
C809	403 162 4709	ELECT 10U M 16V
C811	403 283 6309	CERAMIC 1U Z 10V
C812	403 164 0204	CERAMIC 0.1U Z 25V
C813	403 164 0204	CERAMIC 0.1U Z 25V
C814	403 280 0805	ELECT 330U M 6.3V
C815	403 164 0204	CERAMIC 0.1U Z 25V
C816	403 164 0204	CERAMIC 0.1U Z 25V
C8201	403 280 0508	ELECT 470U M 4V
C8202	403 113 3805	CERAMIC 1000P K 50V
C8203	403 164 0204	CERAMIC 0.1U Z 25V
C8204	403 164 0204	CERAMIC 0.1U Z 25V
C8211	403 113 3805	CERAMIC 1000P K 50V
C8212	403 164 0204	CERAMIC 0.1U Z 25V
C8213	403 164 0204	CERAMIC 0.1U Z 25V
C8221	403 113 3805	CERAMIC 1000P K 50V
C8222	403 164 0204	CERAMIC 0.1U Z 25V
C8223	403 164 0204	CERAMIC 0.1U Z 25V
C8225	403 164 0204	CERAMIC 0.1U Z 25V
C8251	403 164 0204	CERAMIC 0.1U Z 25V
C8252	403 164 0204	CERAMIC 0.1U Z 25V
C8253	403 164 0204	CERAMIC 0.1U Z 25V
C8254	403 164 0204	CERAMIC 0.1U Z 25V
C8261	403 215 1006	CERAMIC 470P J 50V

Ref. No.	Part No.	Description
C8263	403 164 0204	CERAMIC 0.1U Z 25V
C8271	403 164 0204	CERAMIC 0.1U Z 25V
C871	403 280 0508	ELECT 470U M 4V
C872	403 164 0204	CERAMIC 0.1U Z 25V
C873	403 164 0204	CERAMIC 0.1U Z 25V
C874	403 164 0204	CERAMIC 0.1U Z 25V
C875	403 164 0204	CERAMIC 0.1U Z 25V
C876	403 164 0204	CERAMIC 0.1U Z 25V
C877	403 164 0204	CERAMIC 0.1U Z 25V
C878	403 164 0204	CERAMIC 0.1U Z 25V
C879	403 164 0204	CERAMIC 0.1U Z 25V
C886	403 164 0204	CERAMIC 0.1U Z 25V
C887	403 283 6309	CERAMIC 1U Z 10V
C888	403 157 6602	CERAMIC 470P K 50V
C892	403 164 0204	CERAMIC 0.1U Z 25V
C893	403 164 0204	CERAMIC 0.1U Z 25V
C894	403 280 0805	ELECT 330U M 6.3V
C895	403 164 0204	CERAMIC 0.1U Z 25V
C9401	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C9402	403 298 9609	CERAMIC 0.1U K 16V
C9403	403 298 9609	CERAMIC 0.1U K 16V
C9404	403 298 9609	CERAMIC 0.1U K 16V
C9406	403 298 9609	CERAMIC 0.1U K 16V
C9407	403 298 9609	CERAMIC 0.1U K 16V
C9408	403 298 9609	CERAMIC 0.1U K 16V
C9409	403 298 9609	CERAMIC 0.1U K 16V
C9411	403 298 9609	CERAMIC 0.1U K 16V
C9412	403 298 9609	CERAMIC 0.1U K 16V
C9413	403 298 9609	CERAMIC 0.1U K 16V
C9414	403 298 9609	CERAMIC 0.1U K 16V
C9501	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C9502	403 164 0204	CERAMIC 0.1U Z 25V
C9503	403 164 0204	CERAMIC 0.1U Z 25V
C9504	403 164 0204	CERAMIC 0.1U Z 25V
C9506	403 164 0204	CERAMIC 0.1U Z 25V
C9507	403 164 0204	CERAMIC 0.1U Z 25V
C9508	403 164 0204	CERAMIC 0.1U Z 25V
C9509	403 164 0204	CERAMIC 0.1U Z 25V
C9511	403 164 0204	CERAMIC 0.1U Z 25V
C9512	403 164 0204	CERAMIC 0.1U Z 25V
C9513	403 164 0204	CERAMIC 0.1U Z 25V
C9514	403 164 0204	CERAMIC 0.1U Z 25V
C9516	403 164 0204	CERAMIC 0.1U Z 25V
C9801	403 280 0508	ELECT 470U M 4V
C9802	403 164 0204	CERAMIC 0.1U Z 25V
C9804	403 113 3805	CERAMIC 1000P K 50V
C9805	403 153 9102	CERAMIC 5P C 50V
C9806	403 164 0204	CERAMIC 0.1U Z 25V
C9807	403 164 0204	CERAMIC 0.1U Z 25V
C9809	403 164 0204	CERAMIC 0.1U Z 25V
C9811	403 280 0508	ELECT 470U M 4V
C9812	403 164 0204	CERAMIC 0.1U Z 25V
C9851	403 164 0204	CERAMIC 0.1U Z 25V
C9852	403 155 1609	CERAMIC 33P J 50V
C9853	403 155 1609	CERAMIC 33P J 50V
C9882	403 164 0204	CERAMIC 0.1U Z 25V
C9951	403 164 0204	CERAMIC 0.1U Z 25V
C9952	403 155 1609	CERAMIC 33P J 50V
C9953	403 155 1609	CERAMIC 33P J 50V
RESISTOR		
RB1511	645 037 3107	R-NETWORK 10X4 0.063W
RB1531	645 037 3107	R-NETWORK 10X4 0.063W
RB1561	645 037 3107	R-NETWORK 10X4 0.063W
RB2301	645 037 0830	R-NETWORK 47X4 1/32W
RB2302	645 037 0830	R-NETWORK 47X4 1/32W
RB2303	645 037 0830	R-NETWORK 47X4 1/32W
RB2304	645 037 0830	R-NETWORK 47X4 1/32W
RB2305	645 037 0830	R-NETWORK 47X4 1/32W
RB2306	645 037 0830	R-NETWORK 47X4 1/32W
RB2307	645 037 0830	R-NETWORK 47X4 1/32W
RB2308	645 037 0830	R-NETWORK 47X4 1/32W
RB2309	645 037 0830	R-NETWORK 47X4 1/32W
RB2311	645 037 0830	R-NETWORK 47X4 1/32W
RB2312	645 037 0830	R-NETWORK 47X4 1/32W
RB2313	645 037 0830	R-NETWORK 47X4 1/32W
RB2314	645 037 0816	R-NETWORK 0X4 1/32W
RB2315	645 037 0816	R-NETWORK 0X4 1/32W
RB2316	645 037 0816	R-NETWORK 0X4 1/32W
RB2317	645 037 0816	R-NETWORK 0X4 1/32W
RB2318	645 037 0816	R-NETWORK 0X4 1/32W
RB2319	645 037 0816	R-NETWORK 0X4 1/32W

Ref. No.	Part No.	Description
RB2321	645 037 0816	R-NETWORK 0X4 1/32W
RB2322	645 037 0816	R-NETWORK 0X4 1/32W
RB2323	645 037 0816	R-NETWORK 0X4 1/32W
RB2324	645 037 0816	R-NETWORK 0X4 1/32W
RB2325	645 037 0816	R-NETWORK 0X4 1/32W
RB2326	645 037 0816	R-NETWORK 0X4 1/32W
RB2331	645 037 0816	R-NETWORK 0X4 1/32W
RB2332	645 037 0816	R-NETWORK 0X4 1/32W
RB2333	645 037 0816	R-NETWORK 0X4 1/32W
RB2334	645 037 0816	R-NETWORK 0X4 1/32W
RB2335	645 037 0816	R-NETWORK 0X4 1/32W
RB2336	645 037 0816	R-NETWORK 0X4 1/32W
RB331	645 037 4395	R-NETWORK 680X4 1/32W
RB332	645 037 4395	R-NETWORK 680X4 1/32W
RB333	645 037 4395	R-NETWORK 680X4 1/32W
RB334	645 037 4395	R-NETWORK 680X4 1/32W
RB335	645 037 4395	R-NETWORK 680X4 1/32W
RB336	645 037 4395	R-NETWORK 680X4 1/32W
RB337	645 037 4395	R-NETWORK 680X4 1/32W
RB338	645 037 4395	R-NETWORK 680X4 1/32W
RB339	645 037 4395	R-NETWORK 680X4 1/32W
RB341	645 037 4395	R-NETWORK 680X4 1/32W
RB342	645 037 4395	R-NETWORK 680X4 1/32W
RB343	645 037 4395	R-NETWORK 680X4 1/32W
RB401	645 037 0656	R-NETWORK 0X4 0.063W
RB402	645 037 0656	R-NETWORK 0X4 0.063W
RB403	645 037 0656	R-NETWORK 0X4 0.063W
RB404	645 037 0656	R-NETWORK 0X4 0.063W
RB406	645 037 0656	R-NETWORK 0X4 0.063W
RB407	645 037 0656	R-NETWORK 0X4 0.063W
RB408	645 037 0656	R-NETWORK 0X4 0.063W
RB409	645 037 0656	R-NETWORK 0X4 0.063W
RB441	645 037 0663	R-NETWORK 22X4 0.063W
RB442	645 037 0663	R-NETWORK 22X4 0.063W
RB461	645 037 0663	R-NETWORK 22X4 0.063W
RB462	645 037 0663	R-NETWORK 22X4 0.063W
RB4801	645 028 0719	R-NETWORK 10KX4 1/32W
RB4802	645 028 0719	R-NETWORK 10KX4 1/32W
RB4803	645 028 0719	R-NETWORK 10KX4 1/32W
RB4808	645 028 0719	R-NETWORK 10KX4 1/32W
RB481	645 037 0663	R-NETWORK 22X4 0.063W
RB482	645 037 0663	R-NETWORK 22X4 0.063W
RB4841	645 037 0816	R-NETWORK 0X4 1/32W
RB4842	645 037 0816	R-NETWORK 0X4 1/32W
RB4843	645 037 0816	R-NETWORK 0X4 1/32W
RB4844	645 037 0816	R-NETWORK 0X4 1/32W
RB4881	645 049 0682	R-NETWORK 10X4 1/32W
RB4882	645 028 0696	R-NETWORK 100X4 1/32W
RB4883	645 028 0696	R-NETWORK 100X4 1/32W
RB4885	645 028 0696	R-NETWORK 100X4 1/32W
RB501	645 037 3107	R-NETWORK 10X4 0.063W
RB502	645 037 3107	R-NETWORK 10X4 0.063W
RB503	645 037 3107	R-NETWORK 10X4 0.063W
RB531	645 037 3107	R-NETWORK 10X4 0.063W
RB532	645 037 3107	R-NETWORK 10X4 0.063W
RB533	645 037 3107	R-NETWORK 10X4 0.063W
RB561	645 037 3107	R-NETWORK 10X4 0.063W
RB562	645 037 3107	R-NETWORK 10X4 0.063W
RB563	645 037 3107	R-NETWORK 10X4 0.063W
RB5811	645 028 0719	R-NETWORK 10KX4 1/32W
RB5851	645 049 0682	R-NETWORK 10X4 1/32W
RB5852	645 049 0682	R-NETWORK 10X4 1/32W
RB804	645 033 1442	R-NETWORK 4.7KX4 1/32W
RB805	645 033 1442	R-NETWORK 4.7KX4 1/32W
RB806	645 033 1442	R-NETWORK 4.7KX4 1/32W
RB807	645 033 1442	R-NETWORK 4.7KX4 1/32W
RB9401	645 021 0358	R-NETWORK 100X4 0.063W
RB9402	645 021 0358	R-NETWORK 100X4 0.063W
RB9403	645 021 0358	R-NETWORK 100X4 0.063W
RB9404	645 021 0358	R-NETWORK 100X4 0.063W
RB9406	645 021 0358	R-NETWORK 100X4 0.063W
RB9407	645 021 0358	R-NETWORK 100X4 0.063W
RB9801	645 028 0719	R-NETWORK 10KX4 1/32W
RB9802	645 028 0719	R-NETWORK 10KX4 1/32W
R1302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1303	401 105 0405	MT-GLAZE 100 JA 1/16W
R1304	401 105 0603	MT-GLAZE 10K JA 1/16W
R1305	401 105 0405	MT-GLAZE 100 JA 1/16W
R1306	401 105 0405	MT-GLAZE 100 JA 1/16W
R1307	401 105 0405	MT-GLAZE 100 JA 1/16W
R1311	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1312	401 105 0306	MT-GLAZE 10 JA 1/16W
R1313	401 105 2003	MT-GLAZE 1.8K JA 1/16W

Electrical Parts List

Ref. No.	Part No.	Description
R1314	401 105 0306	MT-GLAZE 10 JA 1/16W
R1330	401 105 6407	MT-GLAZE 68 JA 1/16W
R1332	401 105 6407	MT-GLAZE 68 JA 1/16W
R1334	401 105 0603	MT-GLAZE 10K JA 1/16W
R1337	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1342	401 105 6407	MT-GLAZE 68 JA 1/16W
R1344	401 105 0603	MT-GLAZE 10K JA 1/16W
R1350	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1352	401 105 0603	MT-GLAZE 10K JA 1/16W
R1355	401 105 0603	MT-GLAZE 10K JA 1/16W
R1356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1358	401 105 0603	MT-GLAZE 10K JA 1/16W
R1361	401 105 0306	MT-GLAZE 10 JA 1/16W
R1364	401 105 0306	MT-GLAZE 10 JA 1/16W
R1366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1369	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R1371	401 105 0405	MT-GLAZE 100 JA 1/16W
R1372	401 105 0405	MT-GLAZE 100 JA 1/16W
R1373	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1379	401 105 0603	MT-GLAZE 10K JA 1/16W
R1381	401 105 0603	MT-GLAZE 10K JA 1/16W
R1383	401 105 0603	MT-GLAZE 10K JA 1/16W
R1384	401 105 0603	MT-GLAZE 10K JA 1/16W
R1385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1401	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1404	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1411	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1412	401 105 0603	MT-GLAZE 10K JA 1/16W
R1421	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1425	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1426	401 105 0603	MT-GLAZE 10K JA 1/16W
R1428	401 105 0603	MT-GLAZE 10K JA 1/16W
R1429	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1430	401 105 8104	MT-GLAZE 56K JA 1/16W
R1471	401 105 0405	MT-GLAZE 100 JA 1/16W
R1472	401 105 0405	MT-GLAZE 100 JA 1/16W
R1473	401 105 0504	MT-GLAZE 1K JA 1/16W
R1477	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1479	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1487	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1488	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1493	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1494	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1501	401 105 0405	MT-GLAZE 100 JA 1/16W
R1502	401 105 0405	MT-GLAZE 100 JA 1/16W
R1503	401 105 0405	MT-GLAZE 100 JA 1/16W
R1506	401 105 0603	MT-GLAZE 10K JA 1/16W
R1507	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1511	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1512	401 105 0603	MT-GLAZE 10K JA 1/16W
R1513	401 105 0405	MT-GLAZE 100 JA 1/16W
R1517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1518	401 105 0405	MT-GLAZE 100 JA 1/16W
R1519	401 105 0405	MT-GLAZE 100 JA 1/16W
R1521	401 105 0306	MT-GLAZE 10 JA 1/16W
R1522	401 105 0306	MT-GLAZE 10 JA 1/16W
R1523	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1525	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1526	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1531	401 105 0405	MT-GLAZE 100 JA 1/16W
R1532	401 105 0405	MT-GLAZE 100 JA 1/16W
R1533	401 105 0405	MT-GLAZE 100 JA 1/16W
R1536	401 105 0603	MT-GLAZE 10K JA 1/16W
R1537	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1541	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1542	401 105 0603	MT-GLAZE 10K JA 1/16W
R1543	401 105 0405	MT-GLAZE 100 JA 1/16W
R1547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1548	401 105 0405	MT-GLAZE 100 JA 1/16W
R1549	401 105 0405	MT-GLAZE 100 JA 1/16W
R1551	401 105 0306	MT-GLAZE 10 JA 1/16W
R1552	401 105 0306	MT-GLAZE 10 JA 1/16W
R1553	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1556	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1557	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1561	401 105 0405	MT-GLAZE 100 JA 1/16W
R1562	401 105 0405	MT-GLAZE 100 JA 1/16W
R1563	401 105 0405	MT-GLAZE 100 JA 1/16W
R1566	401 105 0603	MT-GLAZE 10K JA 1/16W
R1567	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1571	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1572	401 105 0603	MT-GLAZE 10K JA 1/16W
R1573	401 105 0405	MT-GLAZE 100 JA 1/16W
R1577	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1578	401 105 0405	MT-GLAZE 100 JA 1/16W
R1579	401 105 0405	MT-GLAZE 100 JA 1/16W
R1581	401 105 0306	MT-GLAZE 10 JA 1/16W
R1582	401 105 0306	MT-GLAZE 10 JA 1/16W
R1583	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1586	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1587	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1590	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1591	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1592	401 113 6505	MT-GLAZE 6.2K JA 1/16W
R1593	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R1594	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1595	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1596	401 105 0603	MT-GLAZE 10K JA 1/16W
R1597	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1601	401 105 0603	MT-GLAZE 10K JA 1/16W
R1602	401 105 0603	MT-GLAZE 10K JA 1/16W
R1603	401 105 5400	MT-GLAZE 47K JA 1/16W
R1604	401 105 3406	MT-GLAZE 27K JA 1/16W
R1606	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1607	401 105 2904	MT-GLAZE 22K JA 1/16W
R1611	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1612	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1613	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1616	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1617	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1618	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1623	401 105 0504	MT-GLAZE 1K JA 1/16W
R1624	401 105 0504	MT-GLAZE 1K JA 1/16W
R1626	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1628	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1631	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1632	401 105 0504	MT-GLAZE 1K JA 1/16W
R1801	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1802	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1811	401 105 0405	MT-GLAZE 100 JA 1/16W
R1812	401 105 0405	MT-GLAZE 100 JA 1/16W
R1813	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1814	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1815	401 105 0405	MT-GLAZE 100 JA 1/16W
R1816	401 105 0405	MT-GLAZE 100 JA 1/16W
R1820	401 105 0603	MT-GLAZE 10K JA 1/16W
R1822	401 105 0504	MT-GLAZE 1K JA 1/16W
R1823	401 105 0405	MT-GLAZE 100 JA 1/16W
R1824	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1825	401 105 0405	MT-GLAZE 100 JA 1/16W
R1826	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1827	401 105 0603	MT-GLAZE 10K JA 1/16W
R1828	401 105 0603	MT-GLAZE 10K JA 1/16W
R1829	401 105 0603	MT-GLAZE 10K JA 1/16W
R1841	401 105 0504	MT-GLAZE 1K JA 1/16W
R1843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1844	401 105 0504	MT-GLAZE 1K JA 1/16W
R1846	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1847	401 105 0504	MT-GLAZE 1K JA 1/16W
R1848	401 105 0504	MT-GLAZE 1K JA 1/16W
R1849	401 105 0603	MT-GLAZE 10K JA 1/16W
R1850	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1851	401 105 4502	MT-GLAZE 390 JA 1/16W
R1852	401 105 0405	MT-GLAZE 100 JA 1/16W
R1853	401 105 0405	MT-GLAZE 100 JA 1/16W
R1854	401 105 0702	MT-GLAZE 100K JA 1/16W
R1855	401 105 4502	MT-GLAZE 390 JA 1/16W
R1856	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1857	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1858	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1859	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1860	401 105 0603	MT-GLAZE 10K JA 1/16W
R1861	401 105 0603	MT-GLAZE 10K JA 1/16W
R1862	401 105 0603	MT-GLAZE 10K JA 1/16W
R1863	401 105 0603	MT-GLAZE 10K JA 1/16W
R1864	401 105 0603	MT-GLAZE 10K JA 1/16W
R1865	401 105 0603	MT-GLAZE 10K JA 1/16W
R1866	401 105 0603	MT-GLAZE 10K JA 1/16W
R1867	401 105 0603	MT-GLAZE 10K JA 1/16W
R1868	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description
R1869	401 105 0603	MT-GLAZE 10K JA 1/16W
R1870	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1871	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1872	401 105 0504	MT-GLAZE 1K JA 1/16W
R1873	401 105 0504	MT-GLAZE 1K JA 1/16W
R1874	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1880	401 105 0603	MT-GLAZE 10K JA 1/16W
R1881	401 105 0702	MT-GLAZE 100K JA 1/16W
R1883	401 105 0405	MT-GLAZE 100 JA 1/16W
R1884	401 105 0603	MT-GLAZE 10K JA 1/16W
R1885	401 105 0603	MT-GLAZE 10K JA 1/16W
R1888	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1889	401 105 0306	MT-GLAZE 10 JA 1/16W
R1890	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1891	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1895	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1898	401 105 0603	MT-GLAZE 10K JA 1/16W
R201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R202	401 113 4402	MT-GLAZE 75 JA 1/16W
R204	401 105 0405	MT-GLAZE 100 JA 1/16W
R205	401 105 0405	MT-GLAZE 100 JA 1/16W
R209	401 105 0603	MT-GLAZE 10K JA 1/16W
R211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R212	401 113 4402	MT-GLAZE 75 JA 1/16W
R214	401 105 0405	MT-GLAZE 100 JA 1/16W
R215	401 105 0405	MT-GLAZE 100 JA 1/16W
R219	401 105 0603	MT-GLAZE 10K JA 1/16W
R220	401 105 0405	MT-GLAZE 100 JA 1/16W
R2202	401 105 0405	MT-GLAZE 100 JA 1/16W
R2203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2205	401 105 0405	MT-GLAZE 100 JA 1/16W
R2206	401 105 0405	MT-GLAZE 100 JA 1/16W
R2207	401 105 0306	MT-GLAZE 10 JA 1/16W
R2208	401 105 0306	MT-GLAZE 10 JA 1/16W
R221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2211	401 105 0306	MT-GLAZE 10 JA 1/16W
R2213	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2215	401 105 0603	MT-GLAZE 10K JA 1/16W
R222	401 113 4402	MT-GLAZE 75 JA 1/16W
R2231	401 105 0306	MT-GLAZE 10 JA 1/16W
R2232	401 105 0405	MT-GLAZE 100 JA 1/16W
R2233	401 105 0405	MT-GLAZE 100 JA 1/16W
R2234	401 105 0405	MT-GLAZE 100 JA 1/16W
R225	401 105 0405	MT-GLAZE 100 JA 1/16W
R2261	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2265	401 105 0603	MT-GLAZE 10K JA 1/16W
R229	401 105 0603	MT-GLAZE 10K JA 1/16W
R2300	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2303	401 105 0306	MT-GLAZE 10 JA 1/16W
R231	401 105 3901	MT-GLAZE 33 JA 1/16W
R2310	401 105 1402	MT-GLAZE 150 JA 1/16W
R2320	401 105 1402	MT-GLAZE 150 JA 1/16W
R2328	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2340	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2349	401 105 0603	MT-GLAZE 10K JA 1/16W
R2350	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2352	401 105 0603	MT-GLAZE 10K JA 1/16W
R2356	401 105 0603	MT-GLAZE 10K JA 1/16W
R2359	401 105 0603	MT-GLAZE 10K JA 1/16W
R2360	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2363	401 105 0306	MT-GLAZE 10 JA 1/16W
R2364	401 105 0306	MT-GLAZE 10 JA 1/16W
R2365	401 105 0603	MT-GLAZE 10K JA 1/16W
R2366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2368	401 105 0603	MT-GLAZE 10K JA 1/16W
R2369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2386	401 105 0603	MT-GLAZE 10K JA 1/16W
R2396	401 105 0603	MT-GLAZE 10K JA 1/16W
R241	401 105 3901	MT-GLAZE 33 JA 1/16W
R2501	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2502	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2503	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2504	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description
R2512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2513	401 105 4205	MT-GLAZE 33K JA 1/16W
R2514	401 105 0603	MT-GLAZE 10K JA 1/16W
R2520	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2522	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2523	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2524	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2526	401 105 0702	MT-GLAZE 100K JA 1/16W
R2529	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2530	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2532	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2533	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2534	401 105 0702	MT-GLAZE 100K JA 1/16W
R2536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2540	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2542	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2543	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2546	401 105 0702	MT-GLAZE 100K JA 1/16W
R2549	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2550	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2551	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2552	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2561	401 105 0405	MT-GLAZE 100 JA 1/16W
R2562	401 105 0405	MT-GLAZE 100 JA 1/16W
R2563	401 105 0603	MT-GLAZE 10K JA 1/16W
R261	401 105 3901	MT-GLAZE 33 JA 1/16W
R271	401 105 0603	MT-GLAZE 10K JA 1/16W
R272	401 105 0504	MT-GLAZE 1K JA 1/16W
R280	401 105 0504	MT-GLAZE 1K JA 1/16W
R282	401 105 0603	MT-GLAZE 10K JA 1/16W
R284	401 105 0603	MT-GLAZE 10K JA 1/16W
R286	401 105 0603	MT-GLAZE 10K JA 1/16W
R287	401 105 0504	MT-GLAZE 1K JA 1/16W
R288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R289	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R290	401 105 0504	MT-GLAZE 1K JA 1/16W
R291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R292	401 105 0504	MT-GLAZE 1K JA 1/16W
R293	401 105 0504	MT-GLAZE 1K JA 1/16W
R295	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R296	401 105 0603	MT-GLAZE 10K JA 1/16W
R297	401 105 6506	MT-GLAZE 680 JA 1/16W
R298	401 105 2706	MT-GLAZE 220 JA 1/16W
R299	401 105 0504	MT-GLAZE 1K JA 1/16W
R301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R303	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R305	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R306	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3215	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3233	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3235	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3237	401 105 0603	MT-GLAZE 10K JA 1/16W
R3238	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3239	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R324	401 105 0405	MT-GLAZE 100 JA 1/16W
R3242	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3243	401 105 0306	MT-GLAZE 10 JA 1/16W
R3244	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3245	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3251	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3255	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3256	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R326	401 105 0603	MT-GLAZE 10K JA 1/16W
R3261	401 105 0603	MT-GLAZE 10K JA 1/16W
R3266	401 105 0603	MT-GLAZE 10K JA 1/16W
R3275	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3276	401 105 0306	MT-GLAZE 10 JA 1/16W
R3277	401 105 0306	MT-GLAZE 10 JA 1/16W
R3278	401 105 0306	MT-GLAZE 10 JA 1/16W
R3279	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
R328	401 105 0603	MT-GLAZE 10K JA 1/16W
R3280	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3281	401 105 2706	MT-GLAZE 220 JA 1/16W
R3282	401 105 2706	MT-GLAZE 220 JA 1/16W
R3283	401 105 2706	MT-GLAZE 220 JA 1/16W
R3284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3285	401 105 0306	MT-GLAZE 10 JA 1/16W
R3286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3287	401 105 0306	MT-GLAZE 10 JA 1/16W
R3288	401 105 0306	MT-GLAZE 10 JA 1/16W
R3289	401 105 0306	MT-GLAZE 10 JA 1/16W
R3291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3292	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3293	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R339	401 105 0306	MT-GLAZE 10 JA 1/16W
R340	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R343	401 105 0306	MT-GLAZE 10 JA 1/16W
R348	401 105 0306	MT-GLAZE 10 JA 1/16W
R349	401 105 6407	MT-GLAZE 68 JA 1/16W
R352	401 105 0306	MT-GLAZE 10 JA 1/16W
R353	401 105 6506	MT-GLAZE 680 JA 1/16W
R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R357	401 105 0405	MT-GLAZE 100 JA 1/16W
R358	401 105 0405	MT-GLAZE 100 JA 1/16W
R359	401 105 0306	MT-GLAZE 10 JA 1/16W
R360	401 105 0405	MT-GLAZE 100 JA 1/16W
R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R371	401 105 0405	MT-GLAZE 100 JA 1/16W
R372	401 105 0405	MT-GLAZE 100 JA 1/16W
R373	401 105 0405	MT-GLAZE 100 JA 1/16W
R374	401 105 0405	MT-GLAZE 100 JA 1/16W
R375	401 105 0405	MT-GLAZE 100 JA 1/16W
R376	401 105 0405	MT-GLAZE 100 JA 1/16W
R377	401 105 0405	MT-GLAZE 100 JA 1/16W
R378	401 105 0405	MT-GLAZE 100 JA 1/16W
R379	401 105 0405	MT-GLAZE 100 JA 1/16W
R382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R383	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R388	401 105 0405	MT-GLAZE 100 JA 1/16W
R390	401 105 0603	MT-GLAZE 10K JA 1/16W
R392	401 105 0603	MT-GLAZE 10K JA 1/16W
R393	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R395	401 105 0603	MT-GLAZE 10K JA 1/16W
R397	401 105 0603	MT-GLAZE 10K JA 1/16W
R398	401 105 0603	MT-GLAZE 10K JA 1/16W
R399	401 105 0603	MT-GLAZE 10K JA 1/16W
R401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R402	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R407	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R408	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R409	401 105 0405	MT-GLAZE 100 JA 1/16W
R411	401 105 0405	MT-GLAZE 100 JA 1/16W
R412	401 105 0405	MT-GLAZE 100 JA 1/16W
R413	401 105 0405	MT-GLAZE 100 JA 1/16W
R416	401 105 0405	MT-GLAZE 100 JA 1/16W
R417	401 105 0405	MT-GLAZE 100 JA 1/16W
R418	401 105 2607	MT-GLAZE 22 JA 1/16W
R4201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4202	401 105 0603	MT-GLAZE 10K JA 1/16W
R4203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4206	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R421	401 105 0306	MT-GLAZE 10 JA 1/16W
R4210	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4211	401 113 4600	MT-GLAZE 110 JA 1/16W
R4212	401 113 4600	MT-GLAZE 110 JA 1/16W
R4213	401 113 4600	MT-GLAZE 110 JA 1/16W
R4214	401 113 4600	MT-GLAZE 110 JA 1/16W
R4215	401 105 0306	MT-GLAZE 10 JA 1/16W
R4216	401 105 0603	MT-GLAZE 10K JA 1/16W
R4219	401 105 0306	MT-GLAZE 10 JA 1/16W
R422	401 105 0306	MT-GLAZE 10 JA 1/16W
R4231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4234	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R4236	401 105 0405	MT-GLAZE 100 JA 1/16W
R4237	401 105 0405	MT-GLAZE 100 JA 1/16W
R4239	401 105 0306	MT-GLAZE 10 JA 1/16W
R424	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4240	401 105 0306	MT-GLAZE 10 JA 1/16W
R4245	401 105 0306	MT-GLAZE 10 JA 1/16W
R4246	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4248	401 105 0306	MT-GLAZE 10 JA 1/16W
R4249	401 105 0306	MT-GLAZE 10 JA 1/16W
R4252	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4253	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R4257	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R426	401 105 2508	MT-GLAZE 20K JA 1/16W
R4264	401 105 0306	MT-GLAZE 10 JA 1/16W
R4266	401 105 0306	MT-GLAZE 10 JA 1/16W
R427	401 113 4402	MT-GLAZE 75 JA 1/16W
R4274	401 105 0306	MT-GLAZE 10 JA 1/16W
R428	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4284	401 105 0306	MT-GLAZE 10 JA 1/16W
R4288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4289	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R429	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4290	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4292	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4293	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4294	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4295	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4296	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4297	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4298	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4299	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R430	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R432	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R433	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R434	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R436	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R437	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R438	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R439	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R440	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R441	401 105 0306	MT-GLAZE 10 JA 1/16W
R442	401 105 0306	MT-GLAZE 10 JA 1/16W
R443	401 105 0306	MT-GLAZE 10 JA 1/16W
R444	401 105 0306	MT-GLAZE 10 JA 1/16W
R446	401 105 0306	MT-GLAZE 10 JA 1/16W
R447	401 105 0306	MT-GLAZE 10 JA 1/16W
R448	401 105 0306	MT-GLAZE 10 JA 1/16W
R449	401 105 0306	MT-GLAZE 10 JA 1/16W
R450	401 105 0306	MT-GLAZE 10 JA 1/16W
R451	401 105 0306	MT-GLAZE 10 JA 1/16W
R452	401 105 0306	MT-GLAZE 10 JA 1/16W
R453	401 105 0306	MT-GLAZE 10 JA 1/16W
R454	401 105 0306	MT-GLAZE 10 JA 1/16W
R455	401 105 0306	MT-GLAZE 10 JA 1/16W
R456	401 105 0306	MT-GLAZE 10 JA 1/16W
R457	401 105 0306	MT-GLAZE 10 JA 1/16W
R458	401 105 2607	MT-GLAZE 22 JA 1/16W
R459	401 105 2607	MT-GLAZE 22 JA 1/16W
R460	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R461	401 105 0306	MT-GLAZE 10 JA 1/16W
R462	401 105 0306	MT-GLAZE 10 JA 1/16W
R463	401 105 0306	MT-GLAZE 10 JA 1/16W
R464	401 105 0306	MT-GLAZE 10 JA 1/16W
R466	401 105 0306	MT-GLAZE 10 JA 1/16W
R467	401 105 0306	MT-GLAZE 10 JA 1/16W
R468	401 105 0306	MT-GLAZE 10 JA 1/16W
R469	401 105 0306	MT-GLAZE 10 JA 1/16W
R470	401 105 0306	MT-GLAZE 10 JA 1/16W
R471	401 105 0306	MT-GLAZE 10 JA 1/16W
R472	401 105 0306	MT-GLAZE 10 JA 1/16W
R473	401 105 0306	MT-GLAZE 10 JA 1/16W
R474	401 105 0306	MT-GLAZE 10 JA 1/16W
R475	401 105 0306	MT-GLAZE 10 JA 1/16W
R476	401 105 0306	MT-GLAZE 10 JA 1/16W
R477	401 105 0306	MT-GLAZE 10 JA 1/16W
R478	401 105 2607	MT-GLAZE 22 JA 1/16W
R479	401 105 2607	MT-GLAZE 22 JA 1/16W
R4801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4804	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
R4805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4807	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R481	401 105 0306	MT-GLAZE 10 JA 1/16W
R4811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4812	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4815	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4818	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R482	401 105 0306	MT-GLAZE 10 JA 1/16W
R4821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4822	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4823	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R483	401 105 0306	MT-GLAZE 10 JA 1/16W
R4832	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R484	401 105 0306	MT-GLAZE 10 JA 1/16W
R4840	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4842	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4846	401 105 0702	MT-GLAZE 100K JA 1/16W
R4847	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4855	401 105 0603	MT-GLAZE 10K JA 1/16W
R4857	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4858	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4859	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R486	401 105 0306	MT-GLAZE 10 JA 1/16W
R4861	401 105 0603	MT-GLAZE 10K JA 1/16W
R4865	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4867	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R4868	401 105 5202	MT-GLAZE 470 JA 1/16W
R4869	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R487	401 105 0306	MT-GLAZE 10 JA 1/16W
R4871	401 105 0900	MT-GLAZE 120 JA 1/16W
R4872	401 105 0405	MT-GLAZE 100 JA 1/16W
R4873	401 105 0504	MT-GLAZE 1K JA 1/16W
R4874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4878	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R488	401 105 0306	MT-GLAZE 10 JA 1/16W
R4881	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4883	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4884	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4885	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4887	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4888	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4889	401 105 0306	MT-GLAZE 10 JA 1/16W
R489	401 105 0306	MT-GLAZE 10 JA 1/16W
R4891	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4892	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4895	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4896	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4897	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4898	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4899	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R490	401 105 0306	MT-GLAZE 10 JA 1/16W
R491	401 105 0306	MT-GLAZE 10 JA 1/16W
R492	401 105 0306	MT-GLAZE 10 JA 1/16W
R493	401 105 0306	MT-GLAZE 10 JA 1/16W
R494	401 105 0306	MT-GLAZE 10 JA 1/16W
R495	401 105 0306	MT-GLAZE 10 JA 1/16W
R496	401 105 0306	MT-GLAZE 10 JA 1/16W
R497	401 105 0306	MT-GLAZE 10 JA 1/16W
R498	401 105 2607	MT-GLAZE 22 JA 1/16W
R499	401 105 2607	MT-GLAZE 22 JA 1/16W
R501	401 105 0405	MT-GLAZE 100 JA 1/16W
R5011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5015	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R502	401 105 0405	MT-GLAZE 100 JA 1/16W
R503	401 105 0405	MT-GLAZE 100 JA 1/16W
R508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R513	401 105 0405	MT-GLAZE 100 JA 1/16W
R517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R518	401 105 0405	MT-GLAZE 100 JA 1/16W
R519	401 105 0405	MT-GLAZE 100 JA 1/16W
R521	401 105 0306	MT-GLAZE 10 JA 1/16W
R522	401 105 0306	MT-GLAZE 10 JA 1/16W
R523	401 105 0306	MT-GLAZE 10 JA 1/16W
R524	401 105 0306	MT-GLAZE 10 JA 1/16W
R526	401 105 0306	MT-GLAZE 10 JA 1/16W
R527	401 105 0306	MT-GLAZE 10 JA 1/16W
R528	401 105 0306	MT-GLAZE 10 JA 1/16W
R529	401 105 0306	MT-GLAZE 10 JA 1/16W
R531	401 105 0405	MT-GLAZE 100 JA 1/16W
R5311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R532	401 105 0405	MT-GLAZE 100 JA 1/16W
R533	401 105 0405	MT-GLAZE 100 JA 1/16W
R538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R543	401 105 0405	MT-GLAZE 100 JA 1/16W
R547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R548	401 105 0405	MT-GLAZE 100 JA 1/16W
R549	401 105 0405	MT-GLAZE 100 JA 1/16W
R551	401 105 0306	MT-GLAZE 10 JA 1/16W
R552	401 105 0306	MT-GLAZE 10 JA 1/16W
R553	401 105 0306	MT-GLAZE 10 JA 1/16W
R554	401 105 0306	MT-GLAZE 10 JA 1/16W
R556	401 105 0306	MT-GLAZE 10 JA 1/16W
R557	401 105 0306	MT-GLAZE 10 JA 1/16W
R558	401 105 0306	MT-GLAZE 10 JA 1/16W
R559	401 105 0306	MT-GLAZE 10 JA 1/16W
R561	401 105 0405	MT-GLAZE 100 JA 1/16W
R5611	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5612	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5614	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5615	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R562	401 105 0405	MT-GLAZE 100 JA 1/16W
R563	401 105 0405	MT-GLAZE 100 JA 1/16W
R5631	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R5641	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5642	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5643	401 105 2409	MT-GLAZE 2K JA 1/16W
R5647	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5651	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5652	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5653	401 105 2409	MT-GLAZE 2K JA 1/16W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R569	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R573	401 105 0405	MT-GLAZE 100 JA 1/16W
R577	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R578	401 105 0405	MT-GLAZE 100 JA 1/16W
R579	401 105 0405	MT-GLAZE 100 JA 1/16W
R5801	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5804	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R581	401 105 0306	MT-GLAZE 10 JA 1/16W
R582	401 105 0306	MT-GLAZE 10 JA 1/16W
R583	401 105 0306	MT-GLAZE 10 JA 1/16W
R5831	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5832	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5834	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5835	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5836	645 030 1056	PROTECTOR,IC 3.8A 72V
R5837	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5838	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5839	401 105 2409	MT-GLAZE 2K JA 1/16W
R584	401 105 0306	MT-GLAZE 10 JA 1/16W
R5840	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5841	401 105 0603	MT-GLAZE 10K JA 1/16W
R5842	401 105 0603	MT-GLAZE 10K JA 1/16W
R5843	401 105 0603	MT-GLAZE 10K JA 1/16W
R5844	645 030 1056	PROTECTOR,IC 3.8A 72V
R5851	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R5853	401 105 0405	MT-GLAZE 100 JA 1/16W
R5854	401 105 0405	MT-GLAZE 100 JA 1/16W
R5855	401 105 0405	MT-GLAZE 100 JA 1/16W
R5856	401 105 0405	MT-GLAZE 100 JA 1/16W
R5857	401 105 0405	MT-GLAZE 100 JA 1/16W

Ref. No.	Part No.	Description
R5858	401 105 0405	MT-GLAZE 100 JA 1/16W
R5859	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R586	401 105 0306	MT-GLAZE 10 JA 1/16W
R5865	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R587	401 105 0306	MT-GLAZE 10 JA 1/16W
R5871	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R588	401 105 0306	MT-GLAZE 10 JA 1/16W
R5881	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5884	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5885	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5887	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R589	401 105 0306	MT-GLAZE 10 JA 1/16W
R5894	401 105 0603	MT-GLAZE 10K JA 1/16W
R5895	401 105 0603	MT-GLAZE 10K JA 1/16W
R5896	401 105 0603	MT-GLAZE 10K JA 1/16W
R5897	401 105 0603	MT-GLAZE 10K JA 1/16W
R5898	401 105 0603	MT-GLAZE 10K JA 1/16W
R5899	401 105 0603	MT-GLAZE 10K JA 1/16W
R5902	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5903	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5904	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5907	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5908	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R5911	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5913	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5922	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5923	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5924	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5927	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5928	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R5931	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5933	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5965	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R5970	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5981	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5984	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5991	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5994	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6301	401 105 2607	MT-GLAZE 22 JA 1/16W
R6321	401 105 2607	MT-GLAZE 22 JA 1/16W
R6341	401 105 2607	MT-GLAZE 22 JA 1/16W
R6361	401 105 2607	MT-GLAZE 22 JA 1/16W
R7301	401 105 2607	MT-GLAZE 22 JA 1/16W
R7302	401 105 2607	MT-GLAZE 22 JA 1/16W
R7303	401 105 2607	MT-GLAZE 22 JA 1/16W
R7304	401 105 2607	MT-GLAZE 22 JA 1/16W
R7305	401 105 2607	MT-GLAZE 22 JA 1/16W
R7306	401 105 2607	MT-GLAZE 22 JA 1/16W
R7307	401 105 2607	MT-GLAZE 22 JA 1/16W
R7308	401 105 2607	MT-GLAZE 22 JA 1/16W
R7309	401 105 2607	MT-GLAZE 22 JA 1/16W
R7311	401 105 2607	MT-GLAZE 22 JA 1/16W
R7312	401 105 2607	MT-GLAZE 22 JA 1/16W
R7313	401 105 2607	MT-GLAZE 22 JA 1/16W
R7314	401 105 2607	MT-GLAZE 22 JA 1/16W
R7315	401 105 2607	MT-GLAZE 22 JA 1/16W
R7316	401 105 2607	MT-GLAZE 22 JA 1/16W
R7317	401 105 2607	MT-GLAZE 22 JA 1/16W
R7318	401 105 2607	MT-GLAZE 22 JA 1/16W
R7319	401 105 2607	MT-GLAZE 22 JA 1/16W
R7321	401 105 2607	MT-GLAZE 22 JA 1/16W
R7322	401 105 2607	MT-GLAZE 22 JA 1/16W
R7323	401 105 2607	MT-GLAZE 22 JA 1/16W
R7324	401 105 2607	MT-GLAZE 22 JA 1/16W
R7325	401 105 2607	MT-GLAZE 22 JA 1/16W
R7326	401 105 2607	MT-GLAZE 22 JA 1/16W
R7327	401 105 0306	MT-GLAZE 10 JA 1/16W
R7328	401 105 2607	MT-GLAZE 22 JA 1/16W
R7329	401 105 2607	MT-GLAZE 22 JA 1/16W
R7331	401 105 2607	MT-GLAZE 22 JA 1/16W
R7332	401 105 2607	MT-GLAZE 22 JA 1/16W
R7333	401 105 2607	MT-GLAZE 22 JA 1/16W
R7334	401 105 2607	MT-GLAZE 22 JA 1/16W
R7335	401 105 2607	MT-GLAZE 22 JA 1/16W
R7336	401 105 2607	MT-GLAZE 22 JA 1/16W
R7337	401 105 2607	MT-GLAZE 22 JA 1/16W
R7338	401 105 2607	MT-GLAZE 22 JA 1/16W
R7339	401 105 2607	MT-GLAZE 22 JA 1/16W

Ref. No.	Part No.	Description
R7341	401 105 2607	MT-GLAZE 22 JA 1/16W
R7342	401 105 2607	MT-GLAZE 22 JA 1/16W
R7343	401 105 2607	MT-GLAZE 22 JA 1/16W
R7344	401 105 2607	MT-GLAZE 22 JA 1/16W
R7345	401 105 2607	MT-GLAZE 22 JA 1/16W
R7346	401 105 2607	MT-GLAZE 22 JA 1/16W
R7347	401 105 2607	MT-GLAZE 22 JA 1/16W
R7348	401 105 2607	MT-GLAZE 22 JA 1/16W
R7349	401 105 2607	MT-GLAZE 22 JA 1/16W
R7361	401 105 2607	MT-GLAZE 22 JA 1/16W
R7362	401 105 2607	MT-GLAZE 22 JA 1/16W
R7363	401 105 2607	MT-GLAZE 22 JA 1/16W
R7364	401 105 2607	MT-GLAZE 22 JA 1/16W
R7365	401 105 2607	MT-GLAZE 22 JA 1/16W
R7366	401 105 2607	MT-GLAZE 22 JA 1/16W
R7367	401 105 2607	MT-GLAZE 22 JA 1/16W
R7368	401 105 2607	MT-GLAZE 22 JA 1/16W
R7370	401 105 2607	MT-GLAZE 22 JA 1/16W
R7371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7373	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7375	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7377	401 105 2607	MT-GLAZE 22 JA 1/16W
R7378	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R801	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R8010	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R8011	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R803	401 105 0603	MT-GLAZE 10K JA 1/16W
R804	401 105 0603	MT-GLAZE 10K JA 1/16W
R805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R809	401 105 0405	MT-GLAZE 100 JA 1/16W
R810	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R813	401 105 0405	MT-GLAZE 100 JA 1/16W
R815	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R816	401 105 0603	MT-GLAZE 10K JA 1/16W
R817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R818	401 105 0603	MT-GLAZE 10K JA 1/16W
R820	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R821	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R822	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8225	401 105 0405	MT-GLAZE 100 JA 1/16W
R823	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R824	401 105 4007	MT-GLAZE 330 JA 1/16W
R825	401 105 2904	MT-GLAZE 22K JA 1/16W
R8253	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8254	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8255	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8256	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8257	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8258	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8259	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8261	401 105 6506	MT-GLAZE 680 JA 1/16W
R8262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R827	401 105 2904	MT-GLAZE 22K JA 1/16W
R829	401 105 0900	MT-GLAZE 120 JA 1/16W
R831	401 105 5202	MT-GLAZE 470 JA 1/16W
R832	401 105 0702	MT-GLAZE 100K JA 1/16W
R833	401 105 0405	MT-GLAZE 100 JA 1/16W
R834	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R835	401 105 0405	MT-GLAZE 100 JA 1/16W
R836	401 105 0405	MT-GLAZE 100 JA 1/16W
R837	401 105 0405	MT-GLAZE 100 JA 1/16W
R838	401 105 0405	MT-GLAZE 100 JA 1/16W
R839	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R840	401 105 0603	MT-GLAZE 10K JA 1/16W
R841	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R842	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R843	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R844	401 105 0504	MT-GLAZE 1K JA 1/16W
R845	401 105 0504	MT-GLAZE 1K JA 1/16W
R846	401 105 0504	MT-GLAZE 1K JA 1/16W
R847	401 105 8203	MT-GLAZE 68K JA 1/16W
R848	401 105 0603	MT-GLAZE 10K JA 1/16W
R850	401 105 2904	MT-GLAZE 22K JA 1/16W
R851	401 105 0603	MT-GLAZE 10K JA 1/16W
R852	401 105 0603	MT-GLAZE 10K JA 1/16W
R853	401 105 2904	MT-GLAZE 22K JA 1/16W
R854	401 105 2904	MT-GLAZE 22K JA 1/16W
R855	401 105 2904	MT-GLAZE 22K JA 1/16W

Ref. No.	Part No.	Description
R856	401 105 2904	MT-GLAZE 22K JA 1/16W
R857	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R858	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R859	401 105 0603	MT-GLAZE 10K JA 1/16W
R860	401 105 0306	MT-GLAZE 10 JA 1/16W
R861	401 105 0405	MT-GLAZE 100 JA 1/16W
R862	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R863	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R864	401 105 0405	MT-GLAZE 100 JA 1/16W
R865	401 105 0405	MT-GLAZE 100 JA 1/16W
R866	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R867	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R869	401 105 4304	MT-GLAZE 330K JA 1/16W
R870	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R873	401 105 0603	MT-GLAZE 10K JA 1/16W
R875	401 105 0603	MT-GLAZE 10K JA 1/16W
R877	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R878	401 105 0405	MT-GLAZE 100 JA 1/16W
R879	401 105 0504	MT-GLAZE 1K JA 1/16W
R880	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R881	401 105 8104	MT-GLAZE 56K JA 1/16W
R882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R890	401 105 0603	MT-GLAZE 10K JA 1/16W
R891	401 105 0603	MT-GLAZE 10K JA 1/16W
R893	401 105 0603	MT-GLAZE 10K JA 1/16W
R895	401 105 0603	MT-GLAZE 10K JA 1/16W
R896	401 105 0603	MT-GLAZE 10K JA 1/16W
R9401	401 105 0405	MT-GLAZE 100 JA 1/16W
R9402	401 105 0405	MT-GLAZE 100 JA 1/16W
R9403	401 105 0405	MT-GLAZE 100 JA 1/16W
R9404	401 105 0405	MT-GLAZE 100 JA 1/16W
R9405	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R9406	401 105 0405	MT-GLAZE 100 JA 1/16W
R9407	401 105 0405	MT-GLAZE 100 JA 1/16W
R9411	401 105 0603	MT-GLAZE 10K JA 1/16W
R9412	401 105 0603	MT-GLAZE 10K JA 1/16W
R9414	401 105 0603	MT-GLAZE 10K JA 1/16W
R9416	401 105 0603	MT-GLAZE 10K JA 1/16W
R9421	401 105 2607	MT-GLAZE 22 JA 1/16W
R9423	401 105 0405	MT-GLAZE 100 JA 1/16W
R9424	401 105 0405	MT-GLAZE 100 JA 1/16W
R9426	401 105 0405	MT-GLAZE 100 JA 1/16W
R9427	401 105 0405	MT-GLAZE 100 JA 1/16W
R9428	401 105 0405	MT-GLAZE 100 JA 1/16W
R9501	401 105 0603	MT-GLAZE 10K JA 1/16W
R9503	401 105 0603	MT-GLAZE 10K JA 1/16W
R9504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9505	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9506	401 105 0603	MT-GLAZE 10K JA 1/16W
R9507	401 105 0603	MT-GLAZE 10K JA 1/16W
R9508	401 105 0603	MT-GLAZE 10K JA 1/16W
R9509	401 105 0603	MT-GLAZE 10K JA 1/16W
R9510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9514	401 105 0603	MT-GLAZE 10K JA 1/16W
R9515	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9516	401 105 0603	MT-GLAZE 10K JA 1/16W
R9517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9518	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9519	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9525	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R9530	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9535	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9545	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9546	401 105 0603	MT-GLAZE 10K JA 1/16W
R9547	401 105 0603	MT-GLAZE 10K JA 1/16W
R9548	401 105 0603	MT-GLAZE 10K JA 1/16W
R9549	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description
R9550	401 105 0603	MT-GLAZE 10K JA 1/16W
R9551	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9552	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9553	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9554	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9555	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9556	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9557	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9558	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9559	401 105 0603	MT-GLAZE 10K JA 1/16W
R9560	401 105 0603	MT-GLAZE 10K JA 1/16W
R9561	401 105 0603	MT-GLAZE 10K JA 1/16W
R9562	401 105 0603	MT-GLAZE 10K JA 1/16W
R9563	401 105 0603	MT-GLAZE 10K JA 1/16W
R9564	401 105 0603	MT-GLAZE 10K JA 1/16W
R9565	401 105 0603	MT-GLAZE 10K JA 1/16W
R9566	401 105 0603	MT-GLAZE 10K JA 1/16W
R9567	401 105 0603	MT-GLAZE 10K JA 1/16W
R9568	401 105 0603	MT-GLAZE 10K JA 1/16W
R9569	401 105 0603	MT-GLAZE 10K JA 1/16W
R9582	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R966	401 105 8005	MT-GLAZE 1M JA 1/16W
R9801	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9803	401 105 8005	MT-GLAZE 1M JA 1/16W
R9804	401 105 0405	MT-GLAZE 100 JA 1/16W
R9805	401 105 0405	MT-GLAZE 100 JA 1/16W
R9806	401 105 0405	MT-GLAZE 100 JA 1/16W
R9807	401 105 0405	MT-GLAZE 100 JA 1/16W
R9809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9810	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R9813	401 105 0702	MT-GLAZE 100K JA 1/16W
R9851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9852	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9853	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9856	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9857	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9858	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9859	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9861	401 105 0405	MT-GLAZE 100 JA 1/16W
R9862	401 105 0405	MT-GLAZE 100 JA 1/16W
R9863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9866	401 105 8005	MT-GLAZE 1M JA 1/16W
R9867	401 105 0405	MT-GLAZE 100 JA 1/16W
R9868	401 105 0405	MT-GLAZE 100 JA 1/16W
R9869	401 105 0405	MT-GLAZE 100 JA 1/16W
R9871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9951	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9952	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9953	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9954	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9956	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9957	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9958	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9959	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9961	401 105 0405	MT-GLAZE 100 JA 1/16W
R9962	401 105 0405	MT-GLAZE 100 JA 1/16W
R9963	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9964	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9967	401 105 0405	MT-GLAZE 100 JA 1/16W
R9968	401 105 0405	MT-GLAZE 100 JA 1/16W
R9969	401 105 0405	MT-GLAZE 100 JA 1/16W
R9971	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9972	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L1471	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1511	645 041 2189	INDUCTOR,3.3U J
L1512	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1531	645 041 2189	INDUCTOR,3.3U J
L1532	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L1561	645 041 2189	INDUCTOR,3.3U J
L1562	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L201	645 020 1776	INDUCTOR,3.3U M
L202	645 020 1776	INDUCTOR,3.3U M
L2201	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2211	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2221	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2301	645 020 1776	INDUCTOR,3.3U M
L2302	645 020 1776	INDUCTOR,3.3U M
L2501	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2506	401 035 4108	MT-GLAZE 0.000 ZA 1/8W

Ref. No.	Part No.	Description
L301	645 041 2189	INDUCTOR,3.3U J
L401	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L501	645 041 2189	INDUCTOR,3.3U J
L502	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L531	645 041 2189	INDUCTOR,3.3U J
L532	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L561	645 041 2189	INDUCTOR,3.3U J
L562	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L9801	645 021 1645	INDUCTOR,2.2U J
DIODE		
D1301	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1401	407 149 0807	DIODE 1SS355-TE-17
D1411	407 149 0807	DIODE 1SS355-TE-17
D1421	407 149 0807	DIODE 1SS355-TE-17
D1851	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1852	407 092 9506	DIODE SB07-03C-TB
D2501	407 149 0807	DIODE 1SS355-TE-17
D2502	407 149 0807	DIODE 1SS355-TE-17
D281	407 149 0807	DIODE 1SS355-TE-17
D282	407 149 0807	DIODE 1SS355-TE-17
D283	407 149 0807	DIODE 1SS355-TE-17
D4251	407 223 5001	DIODE D1FM3
D4252	407 223 5001	DIODE D1FM3
D4871	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4872	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4873	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4874	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5541	407 149 0807	DIODE 1SS355-TE-17
D5631	407 149 0807	DIODE 1SS355-TE-17
D5632	407 149 0807	DIODE 1SS355-TE-17
D5633	407 149 0807	DIODE 1SS355-TE-17
D5634	407 149 0807	DIODE 1SS355-TE-17
D5801	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5811	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5812	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5813	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5831	407 223 5001	DIODE D1FM3
D5832	407 223 5001	DIODE D1FM3
D5833	407 223 5001	DIODE D1FM3
D5871	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5877	407 149 0807	DIODE 1SS355-TE-17
D5881	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5901	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5902	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5911	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D5912	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D801	407 092 9506	DIODE SB07-03C-TB
MISCELLANEOUS		
IC885	407 236 0307	SENSOR MPXHZ6115A6T1
TP_HS	645 036 5010	TERMINAL
TP_VS	645 036 5010	TERMINAL
TPDHS	645 036 5010	TERMINAL
TPDVS	645 036 5010	TERMINAL
TPDXB	645 036 5010	TERMINAL
TPDXG	645 036 5010	TERMINAL
TPDXR	645 036 5010	TERMINAL
TPGHS	645 036 5010	TERMINAL
TPGVS	645 036 5010	TERMINAL
TPHV	645 036 5010	TERMINAL
TPMONB	645 036 5010	TERMINAL
TPMONG	645 036 5010	TERMINAL
TPMONR	645 036 5010	TERMINAL
TPNRS	645 036 5010	TERMINAL
TPSCKSH	645 036 5010	TERMINAL
TPSVRH	645 036 5010	TERMINAL
TPSVRL	645 036 5010	TERMINAL
TPV	645 036 5010	TERMINAL
TPVCOMB1	645 036 5010	TERMINAL
TPVCOMG1	645 036 5010	TERMINAL
TPVCOMR1	645 036 5010	TERMINAL
TPV1	645 036 5010	TERMINAL
TPV2	645 036 5010	TERMINAL
TPZNRS	645 036 5010	TERMINAL
TP1351	645 036 5010	TERMINAL
TP1352	645 036 5010	TERMINAL
TP1501	645 036 5010	TERMINAL
TP1531	645 036 5010	TERMINAL
TP1561	645 036 5010	TERMINAL
TP201	645 036 5010	TERMINAL
TP201E	645 036 5010	TERMINAL
TP211	645 036 5010	TERMINAL
TP221	645 036 5010	TERMINAL
TP32H1	645 036 5010	TERMINAL
TP32H2	645 036 5010	TERMINAL
TP32V1	645 036 5010	TERMINAL
TP32V2	645 036 5010	TERMINAL
TP33VAD1	645 036 5010	TERMINAL
TP33VL	645 036 5010	TERMINAL
TP5VREF	645 036 5010	TERMINAL
TP501	645 036 5010	TERMINAL
TP531	645 036 5010	TERMINAL
TP561	645 036 5010	TERMINAL
TP801	645 036 5010	TERMINAL
TP9501	645 036 5010	TERMINAL
TP9502	645 036 5010	TERMINAL
TP9503	645 036 5010	TERMINAL
TP9504	645 036 5010	TERMINAL
TP9506	645 036 5010	TERMINAL
TP9507	645 036 5010	TERMINAL
TP9851	645 036 5010	TERMINAL
TP9852	645 036 5010	TERMINAL
TP9951	645 036 5010	TERMINAL
TP9952	645 036 5010	TERMINAL
K1301	645 047 0783	PLUG,PWB 5P
K2B	645 009 8390	PLUG,ANT 2P
K2G	645 009 8390	PLUG,ANT 2P
K2R	645 009 8390	PLUG,ANT 2P
K25B	645 024 7750	SOCKET,FPC 36P
K25G	645 024 7750	SOCKET,FPC 36P
K25R	645 024 7750	SOCKET,FPC 36P
K301	645 005 6949	PLUG,SIDE-ZR-SM3 6P
K302	645 030 5702	SOCKET,FPC 50P
K32A	645 040 6775	SOCKET,PWB 40P
K32B	645 040 6775	SOCKET,PWB 40P
K8A	645 041 8136	PLUG,40P
K8B	645 042 6834	PLUG,30P
K8D	645 030 6679	PLUG,32P
K8E	645 041 8136	PLUG,40P
K8F	645 038 1645	PLUG,SIDE-ZR-SM3 12P
K8J	645 029 6321	PULG,4P
K8Q	645 005 6963	PLUG,SIDE-ZR-SM3 8P
K8R	645 043 3719	PLUG,3P
K8S	645 029 6314	PULG,3P
K8U	645 020 7198	PLUG,3P
K8V	645 029 6321	PULG,4P
K8W	645 023 8659	PLUG,5P
K8X	645 023 8659	PLUG,5P
X1331	645 047 6587	OSC,CRYSTAL 26.000MHZ
X1341	645 050 2323	OSC,CRYSTAL 25.000MHZ
X2261	645 041 3841	OSC,CRYSTAL 4MHZ
X801	645 053 4973	OSC,CRYSTAL 6.4512MHZ
X9801	645 035 8906	OSC,CRYSTAL 48MHZ
X9851	645 035 2249	OSC,CRYSTAL 6.7584MHZ
X9951	645 035 2249	OSC,CRYSTAL 6.7584MHZ

■ Assembly PWB OPTICAL FANNET

	610 311 5061	**ASSY,PWB,OPTICAL FANNET**
CAPACITOR		
C2641	403 358 1109	ELECT 100U M 25V
C2642	403 113 3805	CERAMIC 1000P K 50V
C2643	403 215 1006	CERAMIC 470P J 50V
C2644	403 358 1109	ELECT 100U M 25V
C2645	403 113 3805	CERAMIC 1000P K 50V
RESISTOR		
R2640	401 190 1400	MT-GLAZE 0.000 ZA 1/2W
R2642	401 105 0603	MT-GLAZE 10K JA 1/16W
R2643	401 190 1400	MT-GLAZE 0.000 ZA 1/2W
R2644	401 105 0603	MT-GLAZE 10K JA 1/16W
R2645	401 190 1400	MT-GLAZE 0.000 ZA 1/2W
R2646	401 105 0603	MT-GLAZE 10K JA 1/16W
R2647	401 105 0603	MT-GLAZE 10K JA 1/16W
R2648	401 105 0603	MT-GLAZE 10K JA 1/16W
R2649	401 190 1400	MT-GLAZE 0.000 ZA 1/2W
DIODE		
D2642	407 149 0807	DIODE 1SS355-TE-17
D2643	407 149 0807	DIODE 1SS355-TE-17
D2644	407 149 0807	DIODE 1SS355-TE-17
D2646	407 149 0807	DIODE 1SS355-TE-17
D2647	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
TP2641	610 012 3991	JUNPER LEAD
TP2642	610 012 3991	JUNPER LEAD
K46A	645 038 4035	PLUG,3P

Ref. No.	Part No.	Description
K46B	645 038 4035	PLUG,3P
K56K	645 011 7640	PLUG,5P
K56L	645 004 2904	PLUG,4P
K56M	645 004 2904	PLUG,4P
K56N	645 005 7373	PLUG,3P
K56Q	645 004 2898	PLUG,3P
K56R	645 004 2898	PLUG,3P
K56S	645 004 2898	PLUG,3P
K56T	645 004 2911	PLUG,5P

■ Assembly PWB POWER

	610 311 5078	**ASSY,PWB,POWER M4RK**	
INTEGRATED CIRCUIT			
IC601	409 179 4503	IC STR81145A	
IC632	409 558 4209	IC STR-Z2156A	
IC652	409 308 8600	IC SE005N	
CAPACITOR			
C602	403 222 1303	CERAMIC	1000P K 1K
C603	403 222 1303	CERAMIC	1000P K 1K
C604	403 396 8108	ELECT	2.2U M 450V
C605	403 070 0909	CERAMIC	0.1U K 50V
C606	403 180 4101	MT-POLYEST	0.1U K 630V
C607	403 126 4608	ELECT	100U M 25V
C608	404 085 7501	ELECT	820U M 250V
C609	404 085 7501	ELECT	820U M 250V
C611	403 332 7806	ELECT	2.2U M 200V
C612	403 237 7901	MT-COMPO	0.22U J 50V
C613	403 113 3805	CERAMIC	1000P K 50V
C614	403 164 0204	CERAMIC	0.1U Z 25V
C615	403 245 4404	CERAMIC	470P K 2K
C616	403 167 8603	CERAMIC	220P K 2K
C617	403 083 6806	POLYPRO	0.056U J 400V
C618	403 164 0204	CERAMIC	0.1U Z 25V
C619	403 164 0204	CERAMIC	0.1U Z 25V
C621	403 148 1807	ELECT	220U M 35V
C622	403 340 9205	ELECT	1U M 350V
C623	403 157 6800	CERAMIC	680P K 50V
C625	403 147 9606	ELECT	1000U M 10V
	403 301 2306	ELECT	1000U M 10V
C626	403 147 9606	ELECT	1000U M 10V
	403 301 2306	ELECT	1000U M 10V
C650	403 134 6403	ELECT	2200U M 16V
C651	403 134 6403	ELECT	2200U M 16V
C652	403 164 0204	CERAMIC	0.1U Z 25V
C653	403 369 2409	ELECT	2700U M 25V
C654	403 369 2409	ELECT	2700U M 25V
C655	403 164 0204	CERAMIC	0.1U Z 25V
C656	403 164 0204	CERAMIC	0.1U Z 25V
C657	403 126 4806	ELECT	3300U M 10V
	403 313 6408	ELECT	3300U M 10V
C658	403 358 7309	ELECT	470U M 10V
C659	403 126 4806	ELECT	3300U M 10V
	403 313 6408	ELECT	3300U M 10V
C661	403 126 4806	ELECT	3300U M 10V
	403 313 6408	ELECT	3300U M 10V
C662	403 156 9208	ELECT	4.7U M 50V
RESISTOR			
R600	401 008 8607	CARBON	220K JA 1/2W
R601	402 078 5701	WIRE WOUND	3.9 JA 7W
R605	401 068 1501	OXIDE-MT	4.7 JA 2W
R606	401 263 0101	MT-GLAZE	100K JA 1W
R607	401 263 0101	MT-GLAZE	100K JA 1W
R608	401 263 0101	MT-GLAZE	100K JA 1W
R609	401 263 0101	MT-GLAZE	100K JA 1W
R611	401 069 4402	OXIDE-MT	68K JA 2W
R612	401 069 4402	OXIDE-MT	68K JA 2W
R614	401 240 7208	MT-GLAZE	33 JA 1/3W
R615	401 105 5905	MT-GLAZE	560 JA 1/16W
R616	401 258 8303	MT-GLAZE	150 JA 1/3W
R617	401 105 0504	MT-GLAZE	1K JA 1/16W
R618	401 105 0603	MT-GLAZE	10K JA 1/16W
R619	402 079 7803	FUSIBLE RES	22 JH 1/4W
R621	401 166 0802	MT-GLAZE	330 JA 1/2W
R622	402 080 7809	MT-GLAZE	150 KA 1W
R623	402 080 7908	MT-GLAZE	180 KA 1W
R653	401 105 5905	MT-GLAZE	560 JA 1/16W
R654	401 105 0306	MT-GLAZE	10 JA 1/16W
R655	401 105 0504	MT-GLAZE	1K JA 1/16W
R656	402 079 7704	FUSIBLE RES	1.0 JH 1/4W
R657	401 105 5103	MT-GLAZE	47 JA 1/16W
R658	424 006 1500	FUSE	250V 2.5A
VARIABLE RESISTOR			
VR652	645 002 3521	VR,SEMI,470 S	
TRANSFORMER			
⚠ T621	645 043 3832	TRANS,POWER,PULSE	
COIL			
⚠ L611	645 047 0493	INDUCTOR,4M	
DIODE			
⚠ DB601	407 141 1000	DIODE RBV-408	
DS601	407 175 2400	THYRISTOR CR12AM-12	
	407 231 3501	THYRISTOR CR12CM-12A	
DZ611	407 175 2806	ZD 02CZ12Y(TE85R)	
DZ655	407 198 6607	ZD 02CZ6.8Z(TE85R)	
D601	407 009 6901	DIODE RM11C	
D602	407 009 6901	DIODE RM11C	
D603	407 009 6901	DIODE RM11C	
D611	407 190 4106	DIODE SFPL-52V	
D612	407 075 5303	DIODE ERA38-06	
D613	407 190 4106	DIODE SFPL-52V	
D651	407 202 9808	DIODE FMB-26L	
D652	407 164 2206	DIODE FMB-24L	
D653	407 190 4106	DIODE SFPL-52V	
D655	407 164 2206	DIODE FMB-24L	
MISCELLANEOUS			
K6D	645 008 4485	PLUG,10P	
⚠ PC611	408 014 9703	PC CNY17F-3OPT1+6	
	408 016 8803	PC PC113 (VDE0884)	
⚠ PC612	408 014 9703	PC CNY17F-3OPT1+6	
	408 016 8803	PC PC113 (VDE0884)	
⚠ VA601	407 130 2902	VARISTOR ENC471D-14A	

■ Assembly PWB RGB FANNET

	610 311 5085	**ASSY,PWB,RGB FANNET M4RK**	
CAPACITOR			
C2691	403 358 1307	ELECT	330U M 25V
C2692	403 164 0204	CERAMIC	0.1U Z 25V
C2693	403 358 1307	ELECT	330U M 25V
C2694	403 164 0204	CERAMIC	0.1U Z 25V
C2696	403 358 1307	ELECT	330U M 25V
C2697	403 164 0204	CERAMIC	0.1U Z 25V
C2698	403 358 1307	ELECT	330U M 25V
C2699	403 358 1307	ELECT	330U M 25V
RESISTOR			
R2690	401 105 0603	MT-GLAZE	10K JA 1/16W
R2691	401 105 0603	MT-GLAZE	10K JA 1/16W
R2692	401 105 0603	MT-GLAZE	10K JA 1/16W
R2693	401 105 0603	MT-GLAZE	10K JA 1/16W
R2694	401 105 0603	MT-GLAZE	10K JA 1/16W
R2695	401 105 0603	MT-GLAZE	10K JA 1/16W
DIODE			
D2690	407 149 0807	DIODE 1SS355-TE-17	
D2691	407 149 0807	DIODE 1SS355-TE-17	
D2692	407 149 0807	DIODE 1SS355-TE-17	
D2693	407 149 0807	DIODE 1SS355-TE-17	
D2694	407 149 0807	DIODE 1SS355-TE-17	
D2695	407 149 0807	DIODE 1SS355-TE-17	
MISCELLANEOUS			
K46C	645 004 2898	PLUG,3P	
K56C	645 004 2928	PLUG,6P	
K56E	645 005 7373	PLUG,3P	
K56F	645 005 7373	PLUG,3P	
K56G	645 005 7373	PLUG,3P	
K56H	645 004 2898	PLUG,3P	
K56J	645 004 2898	PLUG,3P	

Ref. No.	Part No.	Description

■ Assembly PWB LENS NET

	610 311 5092	**ASSY,PWB,LENS NET M4RK**
MISCELLANEOUS		
K56X	645 004 2706	PLUG,4P
K56Y	645 004 2706	PLUG,4P

■ Assembly PWB F-G NET

	610 311 5108	**ASSY,PWB,F-G NET M4RK**
MISCELLANEOUS		
K56V	645 036 1326	TERMINAL
K56W	645 036 1326	TERMINAL

Ref. No.	Part No.	Description

■ ACCESSORIES

009M4RA

	645 015 3976	CABLE,FXAF
	610 234 0969	CABLE
	645 054 3098	CABLE,MOUSE MAC
	645 054 3104	CABLE,MOUSE MAC
	645 039 7196	CABLE,MOUSE MAC
	645 054 3111	CABLE,MOUSE PS/2
	645 054 3128	CABLE,MOUSE PS/2
	645 039 7202	CABLE,MOUSE PS/2
	645 054 3135	CABLE,MOUSE SRAL
	645 054 3142	CABLE,MOUSE SRAL
	645 039 7219	CABLE,MOUSE SRAL
	645 043 3702	CABLE,DVI-D
	645 057 3972	CABLE,INTERFACE DVI-VGA
	645 031 8207	ADAPTOR,MAC/IBM
	610 294 3344	COVER,DUST-MV6A
	645 065 8884	DISC,CD-ROM

✲ REMOCON

	645 066 7541	ASSY,REMOCON CXRP
	610 303 6489	RC-BATTERY LID-CXMA

✲ AC Power cord

▲	645 002 9189	CORD,POWER-3.0MK,UL
▲	645 002 9196	CORD,POWER-3.0MK,EU
▲	645 003 1137	CORD,POWER-3.0MK,UK

✲ Owner's Manual

	610 313 0682	OWNER'S MANUAL-M4RA
	610 313 0699	OWNER'S MANUAL-M4RA-D
	610 313 0705	OWNER'S MANUAL-M4RA-F
	610 313 0712	OWNER'S MANUAL-M4RA-I
	610 313 0729	OWNER'S MANUAL-M4RA-E
	610 313 0736	LENS INST MANUAL-M4RA

✲ Accessories for Projection Lenz

	610 299 7248	COMPL,COVER LENS B-MV6K
	(Including "*")	**See Page 109.**
*	610 290 9258	COVER LNS B-MV6A
*	610 293 8937	COVER LNS C-MV6A
*	610 299 6302	COVER LENS E-MV6A
	610 303 8742	COMPL,MOUNTING LENS A-MT8
	(Including "**")	**See Page 108.**
**	411 176 8101	BOLT HEX-SCT 4X8
**	610 303 6991	ASSY,MOUNTING LENS A-MT8A
**	610 303 8889	CASE LENS ATTACHMENT ASSY
	610 304 6228	COMPL,MOUNTING LENS A-IDJ
	(Including "***")	**See Page 108.**
***	411 176 8101	BOLT HEX-SCT 4X8
***	610 304 6235	ASSY,MOUNTING LENS A-IDJK
***	610 305 7644	CASE LENS ATTACHMENT ASSY
***	610 304 1780	BAG LENS SHIFT ATTACHMENT
***	610 304 1797	CUSHION LS AT A-MT8A
***	610 304 1803	CUSHION LS AT B-MT8A
	610 303 9596	COMPL,MOUNTING COVER-MY8A
	(Including "****")	**See Page 108.**
****	411 155 9600	BOLT HEX-SCT+SW 3X8
****	610 299 6326	MOUNTING COVER-MV6A
****	610 238 5885	IND POLYE COVER-G8BA
	610 301 6658	ASSY,SPACER BF-MY8A
	(Including "*****")	**See Page 111.**
*****	610 301 4067	SPACER SHEET DIA8*T0.1-MV
*****	610 301 4180	SPACER SHEET DIA8*T0.2-MV
*****	610 301 4197	SPACER SHEET DIA8*T0.3-MV

CAUTION

When installing or replacing the Projection Lens, refer to this manual. For installation of the lens, use the parts designated in the manual. Do not use the installation manual and Light-Block Sheets in the lens package. Check the following parts supplied to this projector.

- LIGHT-BLOCK SHEETS 3 pcs.
- LENS ATTACHMENT (01) 1 pce.
- LENS ATTACHMENT (02) 1 pce.
- LIGHT-BLOCK SHEET MOUNTING BASE 1 pce.
- LIGHT-BLOCK SHEET MOUNTING SCREWS 2 pcs.

AVAILABLE LENS

This projector applies the Projection Lenses listed below. Use the suitable lens for where the projector is used.

Model NO.	Type	Zoom	Focus
LNS-W01 LNS-W01Z	Fixed Short Throw Lens	Fixed	Manual
LNS-T01 LNS-T01Z	Fixed Long Throw Lens	Fixed	Manual
LNS-T02	Long Throw Zoom Lens	Motor Driven	Motor Driven
LNS-W02 LNS-W02Z	Short Throw Zoom Lens I	Motor Driven	Motor Driven
LNS-W03	Short Throw Zoom Lens II	Fixed	Manual
LNS-M01 LNS-M01Z	Semi-Long Throw Zoom Lens	Motor Driven	Motor Driven
LNS-S01	Standard Zoom Lens I	Motor Driven	Motor Driven
LNS-S02 LNS-S02Z	Standard Zoom Lens II	Motor Driven	Motor Driven
LNS-S03	Standard Zoom Lens III	Motor Driven	Motor Driven

NOTES ON LENS INSTALLATION

- **Lens installation and replacement should be made by the qualified service personnel.**
- **Be sure to install the lens following this procedure precisely.**
- **Do not touch or remove any parts except the lens and related parts. It may result in malfunctions, electrical shock, fire hazard or other accidents.**
- **Before installing or replacing the lens, check that the Model No. of the Projection Lens matches to the projector.**
- **When moving or setting up the projector, be sure to replace the Lens Cover to protect the surface. And be careful not to hold or subject the lens to strong forces. It may damage the lens, cabinet, or mechanical parts.**
- **For details of the lens and installation, contact the sales dealer where you purchased the projector.**

LENS REPLACEMENT AND INSTALLATION PROCEDURE

NOTE : The installation procedure and needed parts for lens installation depend on the type of the Projection Lens. Check the Model No. of the Projection Lens and be sure to install or replace the lens following procedure below.

1 Remove Lower Lens Cover. Remove 2 Screws A. Push part B and pull Lower Lens Cover down. (See Fig. 1.)

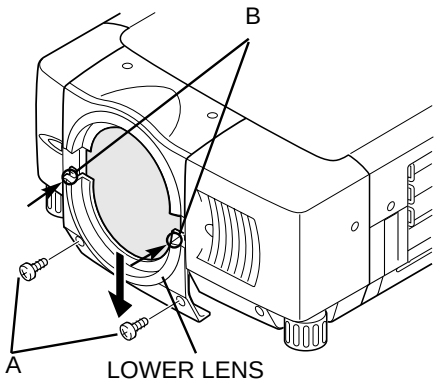


Fig-1

2 Remove 4 Screws C. Pull Upper Lens Cover toward front and remove. (See Fig. 2.)

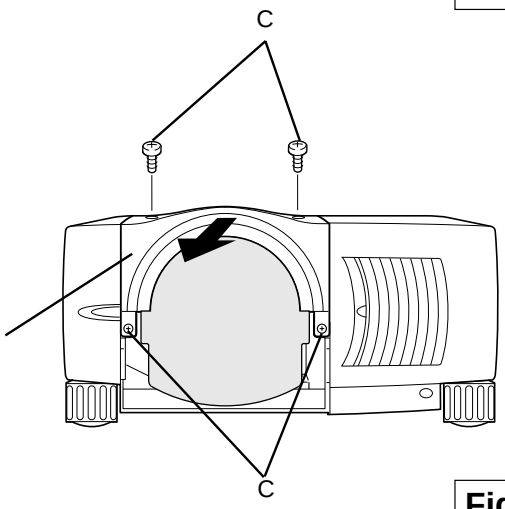


Fig-2

3 Remove 2 Screws D and Cover Plate on the back of Upper Lens Cover. (See Fig. 3.)

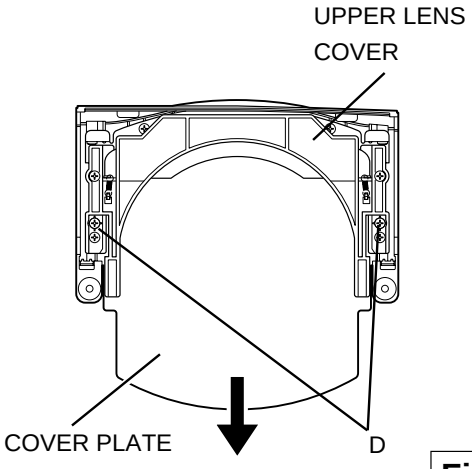


Fig-3

4 Replace Lens Cap on the rear (mounting side) of Projection Lens and mount Lens on the lens Attachment with 4 Screws. (Use screws attached on lens.)

Connect the Lens Motor Lead connector to the socket on the right-top of the lens attachment. (Motor Driven Lens only.) See Fig. 5.

When installing the LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z be sure to mount the lens and Light-Block Sheet Mounting Base on Lens Mounting Bracket. (See Fig. 4)

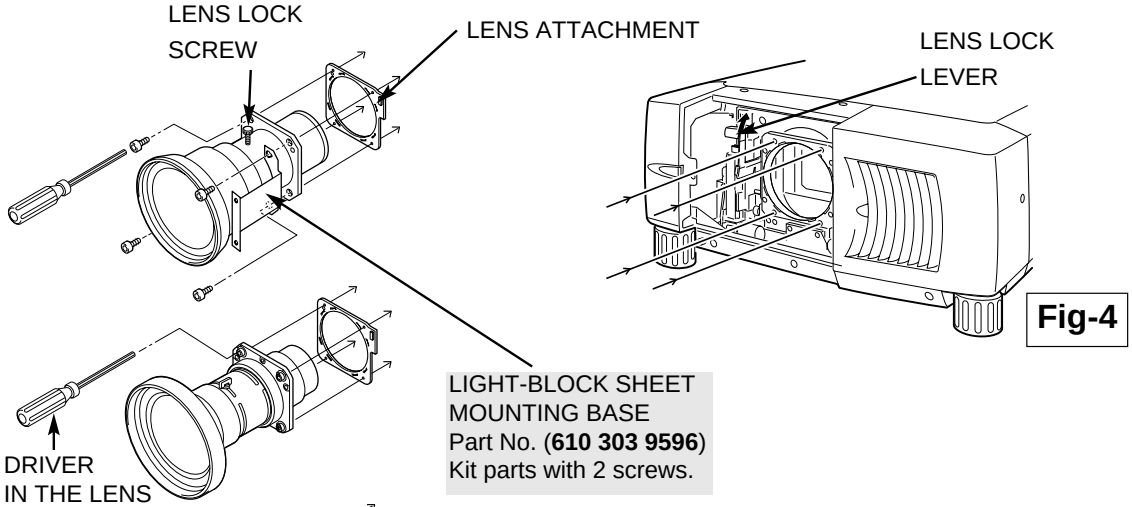


Fig-4

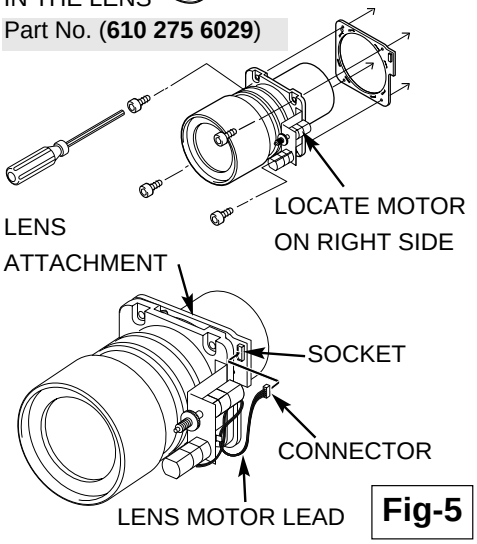


Fig-5

Lens attachments For each lens.

Lens Model No.	LENS ATTACHMENT TYPE No. (PART No.)
LNS-W01, LNS-W01Z, LNS-W02Z, LNS-W03, LNS-T01, LNS-T01Z, LNS-T02, LNS-S02, LNS-S02Z, LNS-S03, LNS-M01Z	Lens Attachment 01 POA-LNA-01 (**610 303 8742**)
LNS-W02, LNS-M01, LNS-S01	Lens Attachment 02 POA-LNA-02 (**610 304 6228**)

5 Grasp (release lock) the Lens Lock Lever and turn it fully upward. (See Fig. 6.)

Install the Lens into the projector. Grasp the Lens Lock Lever and turn the Lever fully downward until lever is Locked (clicked position) properly. (See Fig. 7.)

When installing the Motor Driven Lens, be sure to mount Lens Motor on right side. (See Fig. 4.)

After installing the lens, make sure the Lens is not loose and properly installed.

LENS LOCK RELEASE

Grasp (unlock) Lens Lock Lever and pulling upward.

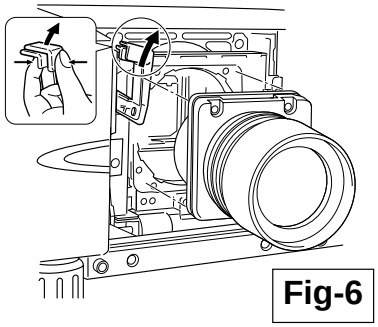


Fig-6

LENS LOCK

Grasp (unlock) Lens Lock Lever and fully pulled downward until it is locked (clicked).

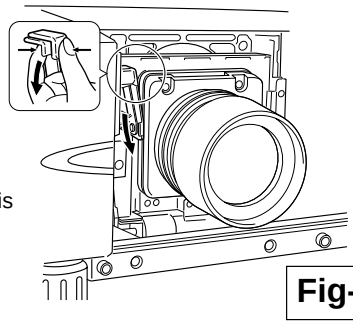


Fig-7

6 This projector has 3 Light-Block Sheets. Use Light-Block Sheet corresponding with lens. (Refer to the list below.)

Set Light-Block Sheet through the lens.

Make sure the shape of the Light-Block Sheets are correct and be sure to set them as shown in the Fig. 8.

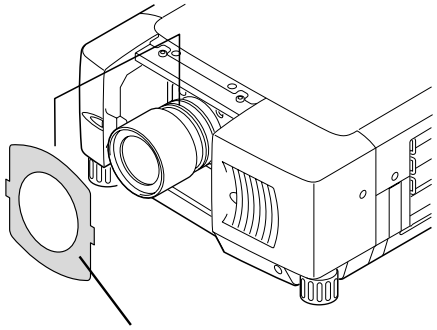
NOTE:

- Be sure to set each Light-Block Sheet as shown in Fig-8.
- Make sure the mark (TOP and BACK) on Light-Block Sheets are correct and set them properly.

Light-Block Sheets For each lens.

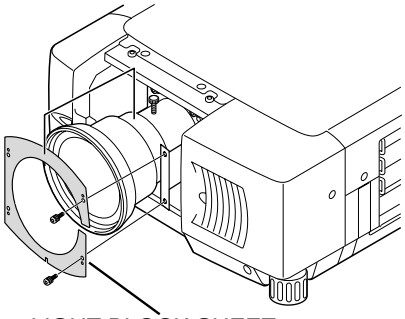
Lens Model No.	Type No. (Part No.)
LNS-S02, LNS-S02Z, LNS-S03	TYPE FD1 (610 290 9258)
LNS-M01, LNS-T02, LNS-W02 LNS-M01Z, LNS-W02Z, LNS-S01 LNS-W03	TYPE FE1 (610 293 8937)
LNS-W01, LNS-T01, LNS-W01Z LNS-T01Z	TYPE FF1 (610 299 6302) Not include Light-Block Sheet Mounting Base and screws.

For Models
LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z



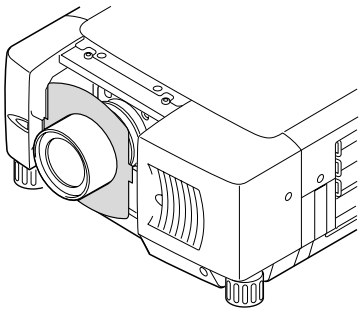
LIGHT BLOCK SHEET

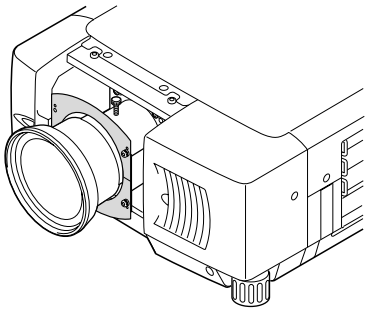
Make sure the sheet figure is correct and put in proper position.



LIGHT BLOCK SHEET

Make sure the sheet figure is correct and put in proper position.





Mount the Light-Block Sheet with 2 screws.

Fig-8

7 Adjust focus of the Projection Lens. (LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z and LNS-W03 only.) Set up the projector and project image on the screen. Loosen Focus Lens Lock Screw and rotate Projection Lens to obtain proper focus. After adjusting focus, be sure to lock Projection Lens with Focus Lens Lock Screw securely. (See Fig. 4.) Adjust focus of Projection Lens MODEL LNS-W03, following Focus Adjustment on page 6.

8 Replace Upper Lens Cover. Fix Upper Lens Cover with 4 Screws C. (See Fig.2.)
Except Model LNS-W01, LNS-W01Z, LNS-T01 and LNS-T01Z, proceed following below.
Slide Light-Block Sheets into the guide of Upper Lens Cover and set them in front of the flap. (See Fig. 9.)

9 Replace Lower Lens Cover. Fix Lower Lens Cover with 2 Screws A. (See Fig.1.)
Except Model LNS-W01, LNS-W01Z, LNS-T01 and LNS-T01Z, proceed following below.
Slide Light-Block Sheets into the guide of Lower Lens Cover and set them in front of the flap. (See Fig.9.)

10 Turn the projector on and operate Lens shift, Zoom and Focus fully to check Light-Block Sheets. If Light-Block Sheets interfere with those operations, check Light-Block Sheets are set properly.

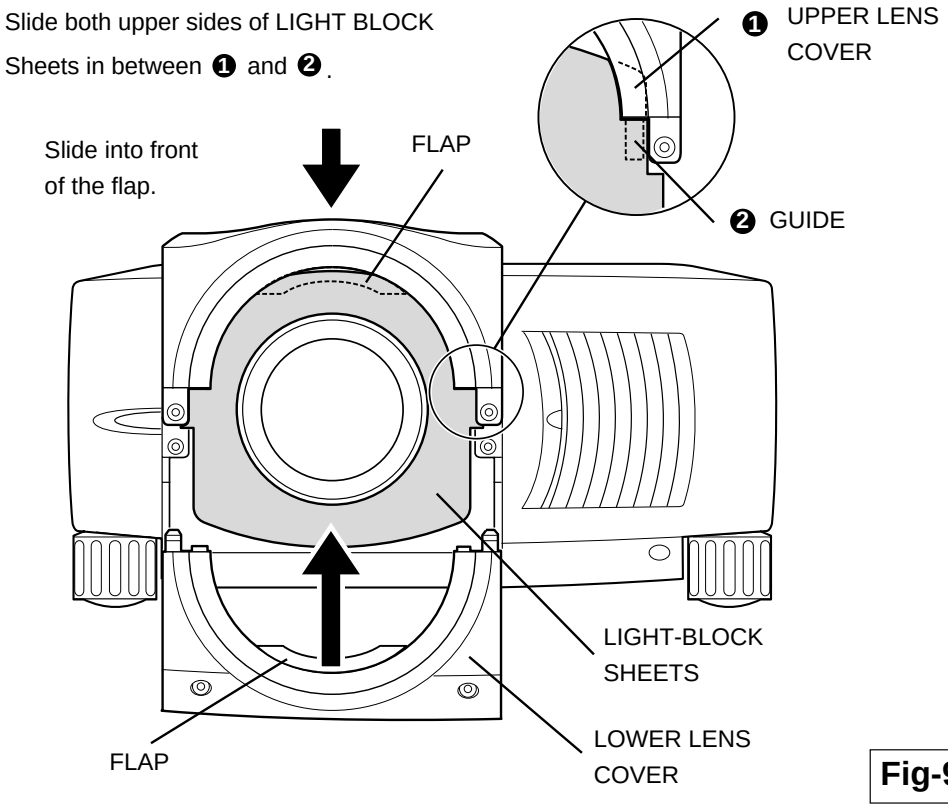

Slide both upper sides of LIGHT BLOCK Sheets in between ❶ and ❷.
❶ UPPER LENS COVER
Slide into front of the flap.
FLAP
❷ GUIDE
LIGHT-BLOCK SHEETS
LOWER LENS COVER
FLAP

Fig-9

FOCUS ADJUSTMENT (For Model LNS-W03)

Set up the projector and project image on the screen.

1. Loosen the Focus Lock Screw on the projection lens.
2. Rotate the projection lens to obtain proper focus on center area of the screen.

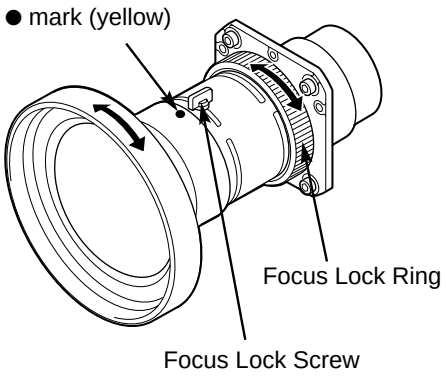
When the distance of the screen and lens is 1 meter, set ● mark (yellow) of the lens on Focus Lock Screw position.

3. Lock the Focus Lock Screw securely.

When proper focus is not observed at outer area of the screen, proceed following adjustments.

4. Loosen the Focus Lock Ring on the projection lens. (Turn the Lock Ring counter-clockwise.)
5. Rotate the lens to obtain proper focus on outer area of the screen.
6. Lock the Focus Lock Ring securely. (Turn the Lock Ring to clockwise.)

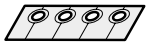
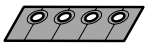
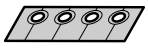
If proper focus is not observed over the entire screen, repeat above adjustments 1~ 6.

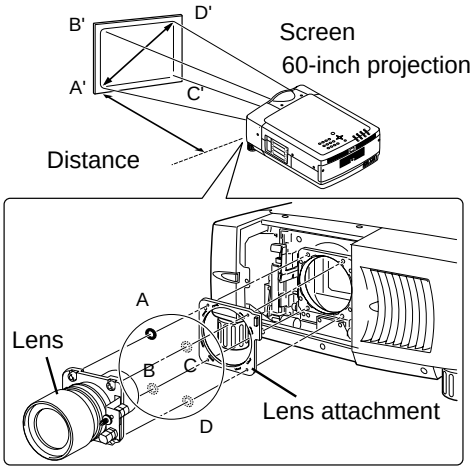


Correcting the focus

When the lens is attached to the projector and images are being projected onto the screen, the peripheral focus may be out of focus in some localized areas. If this happens, insert the accessory in between the lens attachment and the lens to correct the focus.

Inserting the spacers corrects the distance for best diagonal focus at the screen.
The corrected distance is determined by the thickness of the spacers that are used. As a guide, the distance is adjusted by approximately 30 mm for each 0.1-mm thickness of the spacers.
There are three types of spacers provided, and there are four of each spacer type. Use these spacers to correct the distance as required.

	Spacer "1" Color; Clear Thickness; 0.1 mm	Correction distance 30 mm/for 60-inch projection
	Spacer "2" Color; Black Thickness; 0.2 mm	Correction distance 60 mm/for 60-inch projection
	Spacer "1" Color; Cream Thickness; 0.3 mm	Correction distance 90 mm/for 60-inch projection



BE SURE TO CHECK FOR SAFETY

After installing or replacing the lens, be sure to check the following for safety.

1. Check the lens is securely fixed with the screws.
2. Check no wiring is damaged or tangled on the gear of the lens motor or the other mechanical parts.
3. Check no part is missing, and no mounting part is loose.

Some parts are not used for installation or replacement. Keep these parts for later use.

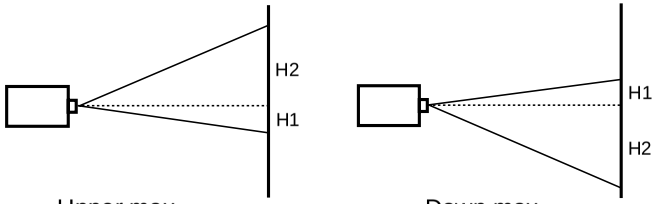
NOTE: Figures in this manual may differ from the actual product.

SPECIFICATIONS (Throw distance and screen size and distance of lens shift.)

NOTE: Following table shows approximate measurement. Actual measurement depends on lens and projectors.

		SCREEN SIZE (INCH) AND THROW DISTANCE (m)														LENS SHIFT/ CENTER RATIO	
Model No.	**Zoom**	**40**	**60**	**80**	**100**	**120**	**150**	**180**	**200**	**250**	**300**	**350**	**400**	**500**	**600**	**U/D (MAX)**	
																H1	**H2**
LNS-S02 LNS-S02Z	MIN	2.8	4.4	6.1	7.7	9.3	11.7	14.2	15.8	19.8	23.8	28.0	32.0	40.1	48.1	-1	6
	MAX	2.2	3.5	4.7	5.9	7.2	9.0	10.9	12.3	15.4	18.5	21.6	24.7	30.9	37.1		
LNS-W02 LNS-W02Z	MIN	2.1	3.1	4.3	5.3	6.5	8.1	9.9	10.9	13.8	16.6	19.4	22.2	27.7	33.3	0	10
	MAX	1.6	2.5	3.4	4.3	5.0	6.4	7.7	8.6	10.6	12.7	14.9	17.0	21.3	25.6		
LNS-T02	MIN	7.5	11.1	14.8	18.5	22.1	27.5	33.0	36.7	45.9	54.9	64.1	73.2	91.5	110.0	0	10
	MAX	5.6	8.1	10.8	13.5	16.0	20.0	23.8	26.5	33.0	39.5	46.0	52.5	65.6	78.6		
LNS-M01 LNS-M01Z	MIN	5.3	8.0	10.7	13.3	16.0	20.0	24.0	26.6	33.3	40.0	46.6	53.3	66.6	79.9	0	10
	MAX	4.3	6.4	8.4	10.5	12.6	15.5	18.6	20.7	25.9	31.1	50.9	41.3	51.6	61.9		
LNS-S01	MIN	3.4	5.2	6.8	8.6	10.4	13.0	15.7	17.5	21.9	26.3	30.8	35.2	44.0	52.8	-1	6
	MAX	2.2	3.3	4.3	5.5	6.5	8.3	9.9	10.9	13.8	16.6	19.2	22.1	27.5	33.1		
LNS-S03	MIN	------	------	------	10.5	12.7	15.8	19.1	21.3	26.6	32.0	37.4	42.8	53.4	64.2	-1	6
	MAX	------	------	------	7.7	9.3	11.7	14.1	15.7	19.7	23.7	27.7	31.7	39.7	47.8		
LNS-W01 LNS-W01Z	NONE	1.3	2.1	2.8	3.5	4.3	5.3	6.5	7.2	9.0	10.9	12.7	14.6	18.2	21.9	0	10
LNS-T01 LNS-T01Z	NONE	8.3	12.4	16.6	20.7	24.9	31.1	37.4	41.6	51.9	62.3	72.8	83.2	104.0	124.8	0	10
LNS-W03	NONE	0.9	1.3	1.9	2.4	2.8	3.5	4.3	4.9	6.1	7.3	8.6	9.8	12.3	14.6	NONE	

LENS SHIFT (UP/DOWN)



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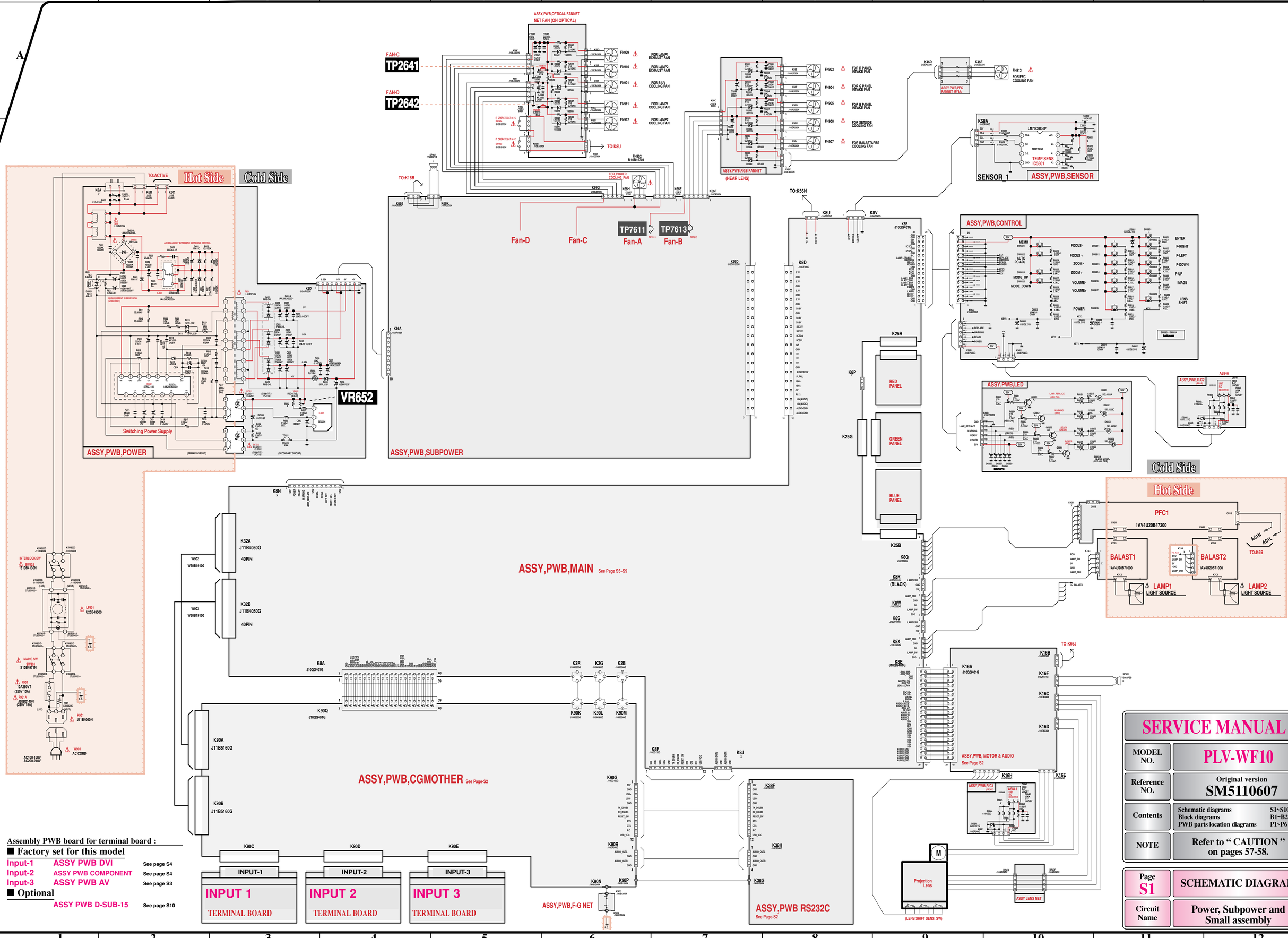

ASSY,PWB,OPTICAL FANNET
NET FAN (ON OPTICAL)
FAN-C
TP2641
FAN-D
TP2642
FN909 FOR LAMP1 EXHAUST FAN
FN910 FOR LAMP2 EXHAUST FAN
FN901 FOR B.UV COOLING FAN
FN911 FOR LAMP1 COOLING FAN
FN912 FOR LAMP2 COOLING FAN
TO:K8U
FN902 M10B16701
TO:K16B
FOR POWER COOLING FAN
ASSY,PWB,RGB FANNET
(NEAR LENS)
FN903 FOR R.PANEL INTAKE FAN
FN904 FOR G.PANEL INTAKE FAN
FN905 FOR B.PANEL INTAKE FAN
FN908 FOR SETSIDE COOLING FAN
FN907 FOR BALAST&PBS COOLING FAN
K46D
K46E
FN913 FOR PFC COOLING FAN
ASSY PWB,PFC FANNET MYBA
K58A
LM76CHX-5P
TEMP.SENS IC5801
SENSOR 1
ASSY,PWB,SENSOR
Hot Side
Cold Side
TO:ACTIVE
K6A
K6B
K6C
ACTIVE/ACSENT AUTOMATIC SWITCHING CONTROL
INRUSH CURRENT SUPPRESSION (SENSOR UNDER)
Switching Power Supply
ASSY,PWB,POWER
(PRIMARY CIRCUIT)
(SECONDARY CIRCUIT)
K6D
K66A
VR652
Fan-D
Fan-C
Fan-A
Fan-B
TP7611
TP7613
K66D
K66F
K66E
K66J
K66K
ASSY,PWB,SUBPOWER
TO:K56N
K8U
K8V
K8B J10QG401G
K8D
K25R
K8P
K25G
K25B
RED PANEL
GREEN PANEL
BLUE PANEL
ASSY,PWB,CONTROL
MEMU
AUTO PC ADJ
MODE_UP
MODE_DOWN
FOCUS -
FOCUS +
ZOOM -
ZOOM +
VOLUME-
VOLUME+
POWER
ENTER
P-RIGHT
P-LEFT
P-DOWN
P-UP
IMAGE
LENS SHIFT
ASSY,PWB,LED
A6846
ASSY,PWB,R-C2
K8N
K32A J11B4050G 40PIN
K32B J11B4050G 40PIN
W902 W30B19100
W903 W30B19100
ASSY,PWB,MAIN See Page S5~S9
K8A J10QG401G
K90Q J10QG401G
K2R
K2G
K2B
K90K
K90L
K90M
K90A J11B5160G
K90B J11B5160G
ASSY,PWB,CGMOTHER See Page-S2
K8F
K8J
K90G
K90R
K90N
K90P
K38F
K38H
K38G
ASSY,PWB RS232C
See Page-S2
ASSY,PWB,F-G NET
K90C
K90D
K90E
INPUT-1
INPUT-2
INPUT-3
INPUT 1
TERMINAL BOARD
INPUT 2
TERMINAL BOARD
INPUT 3
TERMINAL BOARD
INTERLOCK SW
SW902
S10B4130N
MAINS SW
SW901
S10B4971N
F901
10A/250VT (250V 10A)
F901A
J008H140N (250V 15A)
K301
J11B4060N
W301
AC CORD
AC100-120V
AC200-240V
LF901
U20B49500
K16A J10QG401G
K16B
K16F
K16C
K16D
K16H
K16E
TO:K66J
ASSY,PWB, MOTOR & AUDIO
See Page S2
Projection Lens
(LENS SHIFT SENS. SW)
K36F
K36Y
ASSY LENS NET
PFC1
1AV4U20B47200
BALAST1
1AV4U20B71000
BALAST2
1AV4U20B71000
TO:K6B
LAMP1
LIGHT SOURCE
LAMP2
LIGHT SOURCE
Assembly PWB board for terminal board :
■ Factory set for this model
Input-1 ASSY PWB DVI See page S4
Input-2 ASSY PWB COMPONENT See page S4
Input-3 ASSY PWB AV See page S3
■ Optional
ASSY PWB D-SUB-15 See page S10
SERVICE MANUAL
MODEL NO. PLV-WF10
Reference NO. Original version SM5110607
Contents
Schematic diagrams S1~S10
Block diagrams B1~B2
PWB parts location diagrams P1~P6
NOTE Refer to " CAUTION " on pages 57-58.
Page S1
SCHEMATIC DIAGRAM
Circuit Name Power, Subpower and Small assembly

TO K32A and K32B on Ass'y MAIN

K90A

K90B

TO K90A
TO K90B

SLOT1

SLOT2

SLOT3

TO ass'y RS232C

K90G

K90R

TO ass'y MAIN

K90Q

K90K

K90L

K90M

K90N

K90P

ASSY PWB CGMOTHER

ASSY PWB MOTOR&AUDIO

LENS SHIFT MOTOR DRIVE

FOCUS MOTOR DRIVE

ZOOM MOTOR DRIVE

AUDIO AMP.

LENS
ZOOM/FOCUS

TO LENS SIFT (VERTICAL)

TO MAIN K8E

SERIAL POET

IN

OUT

USB PORT

R/C INPUT

AUDIO OUTPUT

L

R

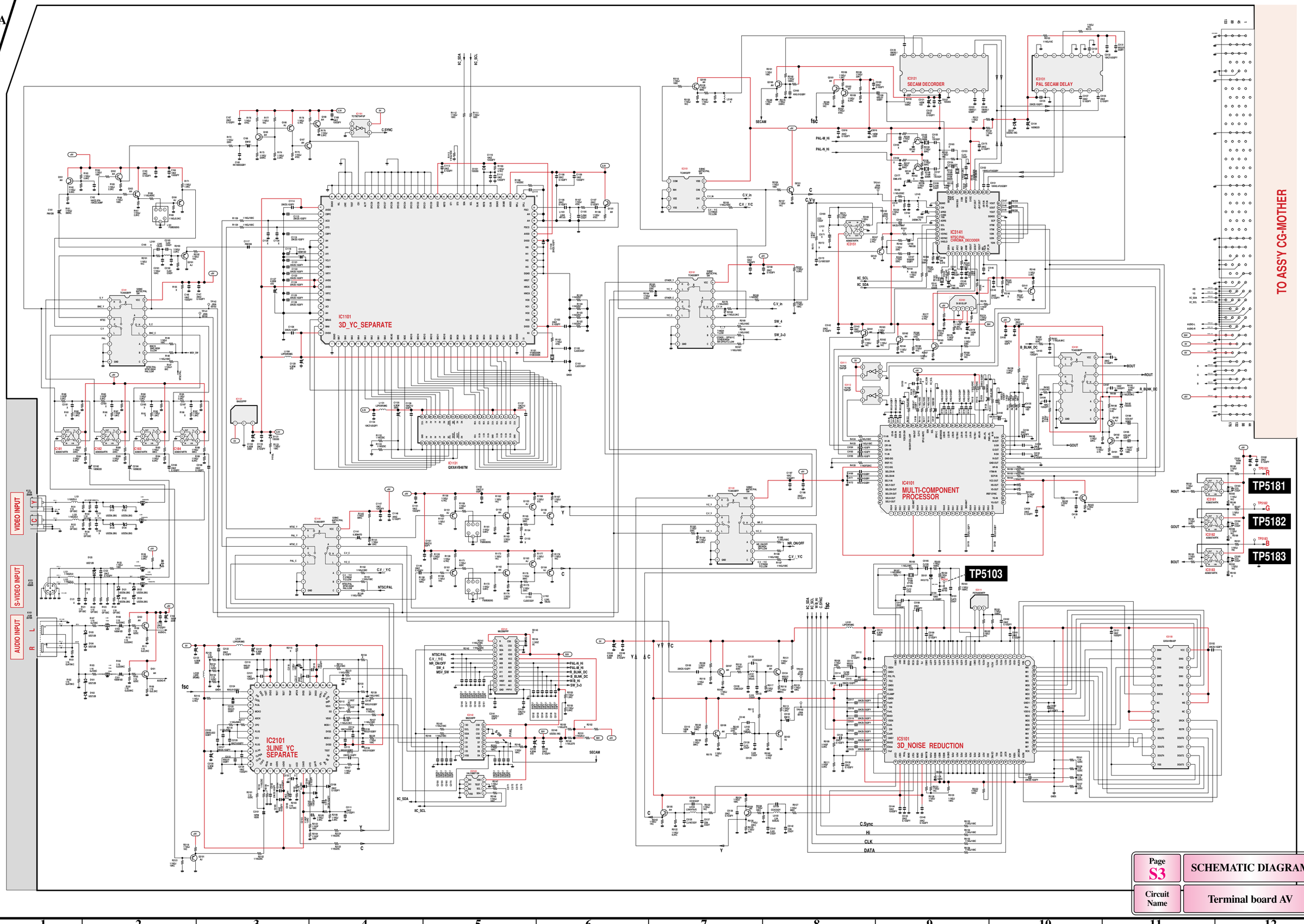
RESET BUTTON

TO CGMOTHER

TO CHASIS_EARTH

ASSY PWB RS232C

Page S2	SCHEMATIC DIAGRAM
Circuit Name	CG-MOTHER, RS232C and MOTOR&AUDIO Assembly


VIDEO INPUT
S-VIDEO INPUT
AUDIO INPUT
IC1101
3D_YC_SEPARATE
IC2101
3LINE_YC SEPARATE
IC3101
PAL SECAM DELAY
IC3121
SECAM DECORDER
IC3141
NTSC/PAL CHROMA DECODER
IC4101
MULTI-COMPONENT PROCESSOR
IC5101
3D_NOISE REDUCTION
TO ASS'Y CG-MOTHER
TP5181
TP5182
TP5183
TP5103
Page S3
SCHEMATIC DIAGRAM
Circuit Name
Terminal board AV

ASSY PWB DVI

TO ass'y CG-MOTHER

DVI Input

K80A
J11B4920N

IC8001
Digital Interface

DATA

LATCH

SYNC SEP.

IC8041
AFC

HD-NTSC

Mouse Control

Audio Input

Control Port

K81A
J12B2870N

K81B
J11B4090N

ASSY PWB COMPONENT

Component Input

K10A

IC3081
ADV7183AKCP

IC3082
ADV7183AKCP

IC3083
ADV7183AKCP

IC3084
AD9887AKSTZ

IC2081
I / O EXP.

IC2082
EEP-ROM

IC1051
SYNC SEP.

IC2301
M52320FP

IC2302
GX5X4B04GP

IC2303
GX5X4B04GP

IC2304
GX5X4B04GP

IC2305
GX5X4B04GP

IC2306
GX5X4B04GP

IC2307
GX5X4B04GP

IC2308
GX5X4B04GP

IC2309
GX5X4B04GP

IC2310
GX5X4B04GP

IC2311
GX5X4B04GP

IC2312
GX5X4B04GP

IC2313
GX5X4B04GP

IC2314
GX5X4B04GP

IC2315
GX5X4B04GP

IC2316
GX5X4B04GP

IC2317
GX5X4B04GP

IC2318
GX5X4B04GP

IC2319
GX5X4B04GP

IC2320
GX5X4B04GP

IC2321
GX5X4B04GP

IC2322
GX5X4B04GP

IC2323
GX5X4B04GP

IC2324
GX5X4B04GP

IC2325
GX5X4B04GP

IC2326
GX5X4B04GP

IC2327
GX5X4B04GP

IC2328
GX5X4B04GP

IC2329
GX5X4B04GP

IC2330
GX5X4B04GP

IC2331
M52320FP

IC2332
GX5X4B04GP

IC2333
GX5X4B04GP

IC2334
GX5X4B04GP

IC2335
GX5X4B04GP

IC2336
GX5X4B04GP

IC2337
GX5X4B04GP

IC2338
GX5X4B04GP

IC2339
GX5X4B04GP

IC2340
GX5X4B04GP

IC2341
GX5X4B04GP

IC2342
GX5X4B04GP

IC2343
GX5X4B04GP

IC2344
GX5X4B04GP

IC2345
GX5X4B04GP

IC2346
GX5X4B04GP

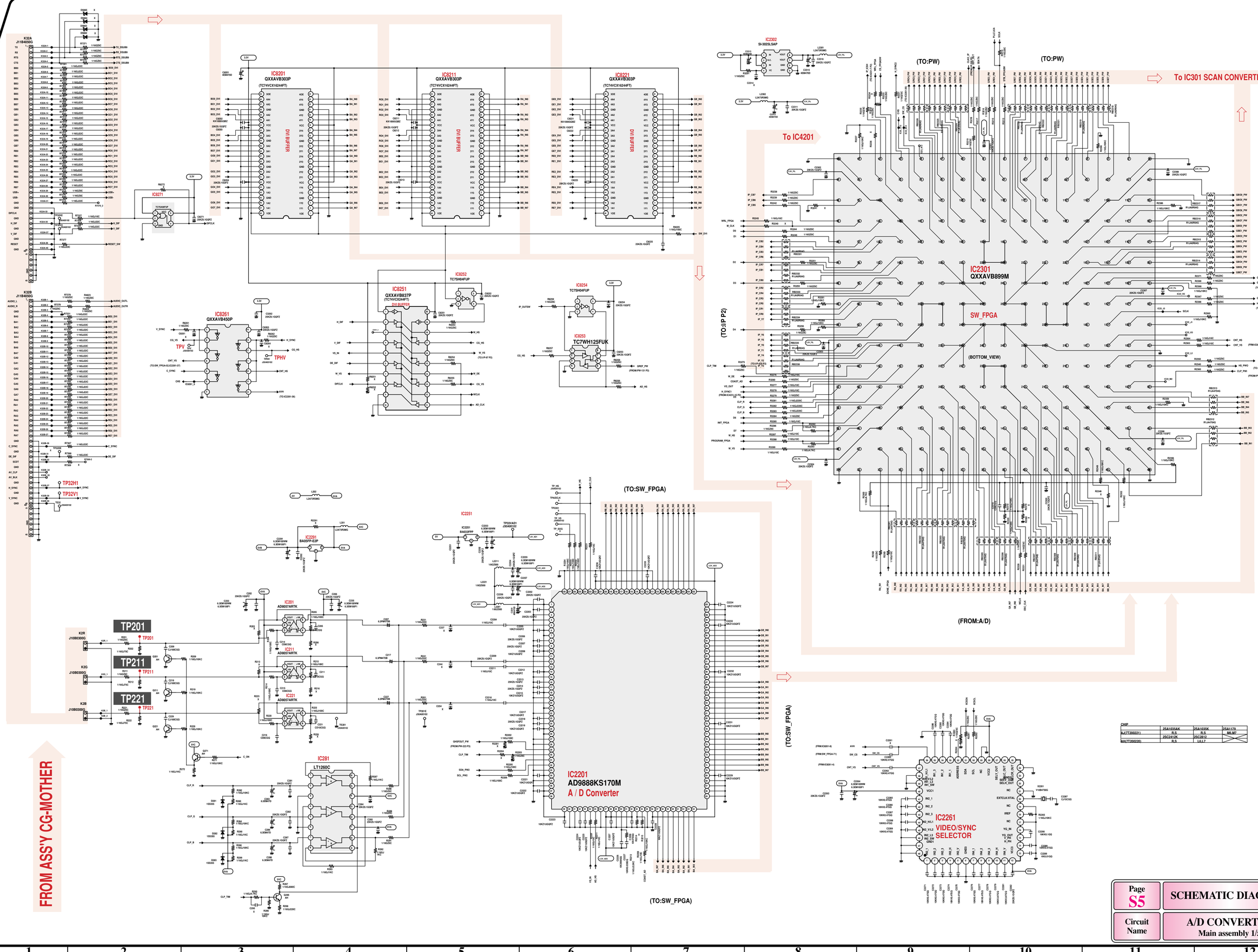
IC2347
GX5X4B04GP

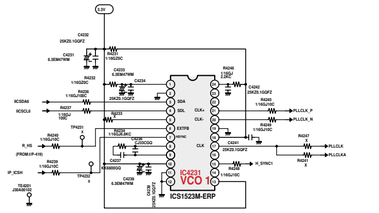
IC2348
GX5X4B04GP

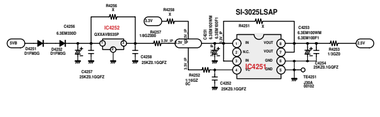
IC2349
GX5X4B04GP

IC2350
GX5X4B04GP

IC2351
GX5X4B04GP

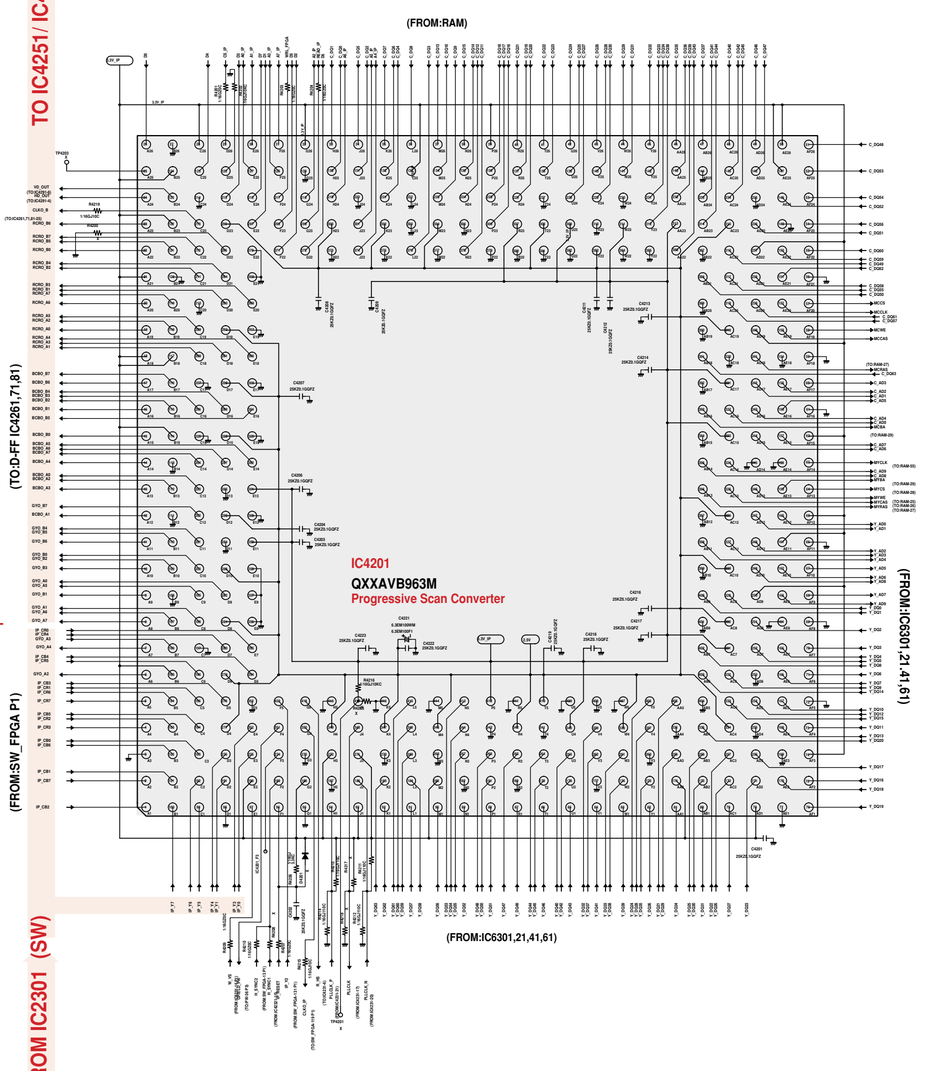

IC2201
AD9888KS170M
A / D Converter
IC2202
SI-3025LSAP
IC2211
QXXAVB303P
IC2221
QXXAVB303P
IC2251
BA033FPP
IC2252
TC7SH04FUP
IC2253
TC7WH125FUK
IC2254
TC7SH04FUP
IC2261
QXXAVB450P
IC2291
BA05FP-E2P
IC201
AD8057ARTK
IC211
AD8057ARTK
IC221
AD8057ARTK
IC281
LT1260C
IC2301
QXXAVB899M
SW_FPGA
IC2261
VIDEO/SYNC
SELECTOR
TO IC4201
To IC301 SCAN CONVERTER
(TO:PW)
(TO:I/P P2)
(TO:SW_FPGA)
(FROM:A/D)
FROM ASS'Y CG-MOTHER
TP201
TP211
TP221
TPV
TPHV
TP32H1
TP32V1
(BOTTOM_VIEW)
CHIP
2SA1035AK
2SA1035K
2SA1175
AJ(7720021)
R,S
R,S
M4,M7
2SC2812
2SC3812
AH(7720020)
R,S
L6,L7
Page
S5
SCHEMATIC DIAGRAM
Circuit Name
A/D CONVERTER
Main assembly 1/5





TO IC4251 / IC4271 / IC4281 BUFFER

(FROM:RAM)



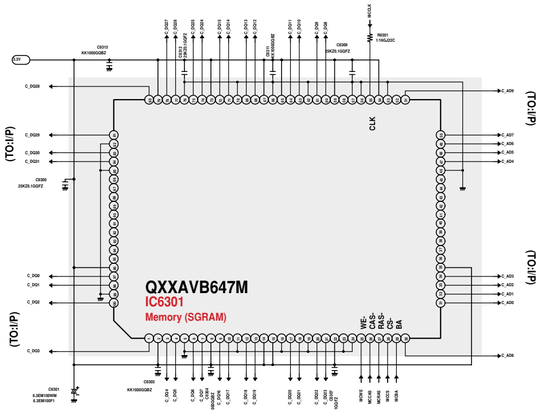
(TO:D-FF IC4261,71,81)

(FROM:SW_FPGA P1)

(FROM:IC6301,21,41,61)

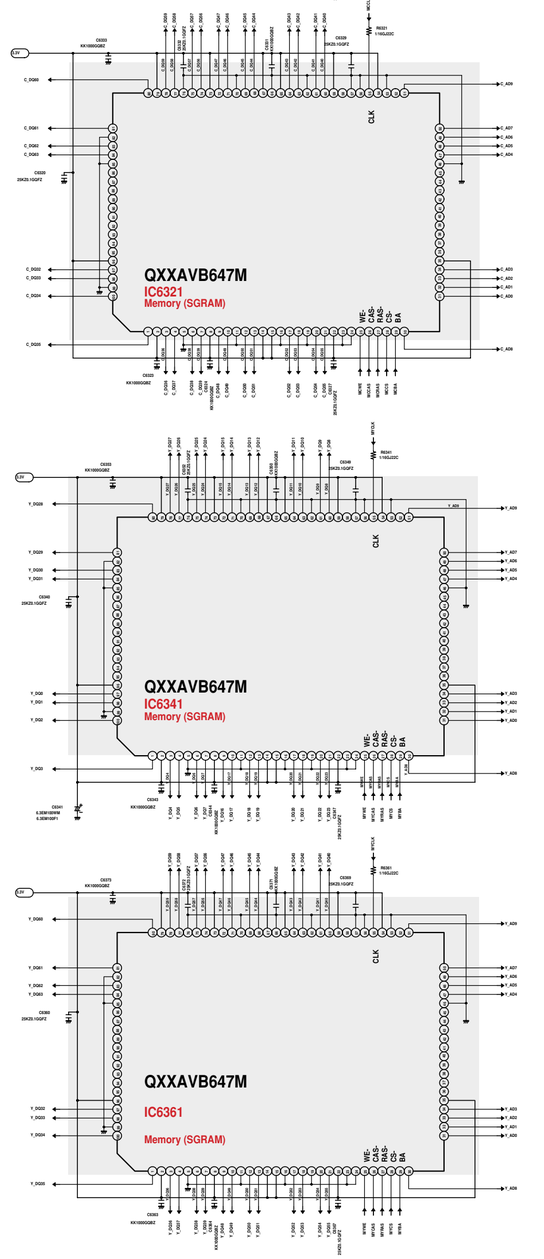
(FROM:IC6301,21,41,61)

FROM IC2301 (SW)

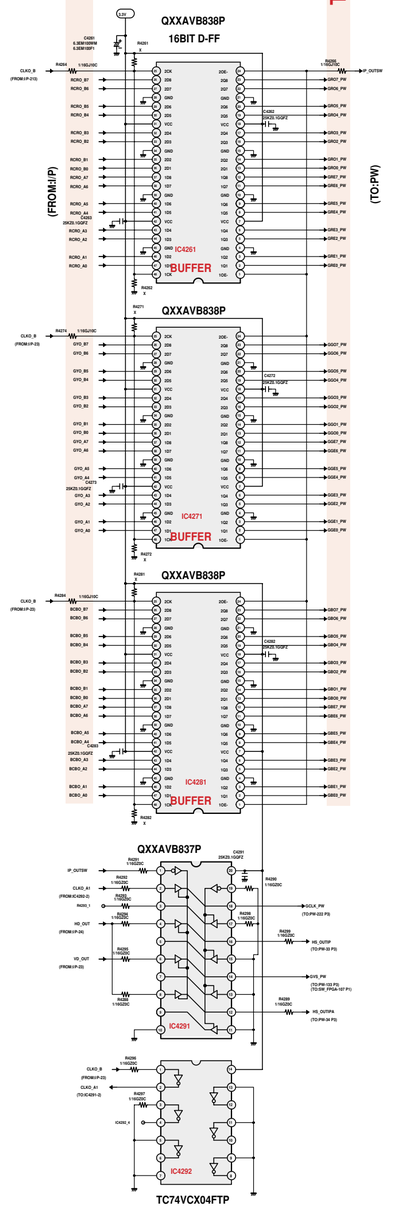


(TO:I/P)

(TO:I/P)



TO IC301 SCAN CONVERTER



(FROM:I/P)

(TO:PW)

CHIP	2SA1035AK	2SA1035K	2SA1179
8J(7720021)	R,S	R,S	MI,M7
	2SC4213K	2SC2412	
8J(7720023)	R,S	L6,L7	

Page S6	SCHEMATIC DIAGRAM
Circuit Name	Progressive Scan & SGRAM Main assembly 2/5

PW365-20UM
SCAN-CONVERTER
IC301

FROM IC2301 SW

TO IC801 CPU

TO IC9401 ENHANCER

TO IC9401 VIDEO ENHANCER

TO:IC1351,2

TO:IC1351,2

TO:(GAMMA)

NOT USED

L301
L2F73R3JG

IC1362
SI-3020L5AF

IC1363

IC9501
QXXAVC153M

IC1351
FLASH
QXXAAJQ0502
(MBM29LV800TA90CO15S)

IC1352
SRAM
QXXAVB552P
QXXAVB806P
IS61LV6416

X1341
Y1080060G
(25MHz)

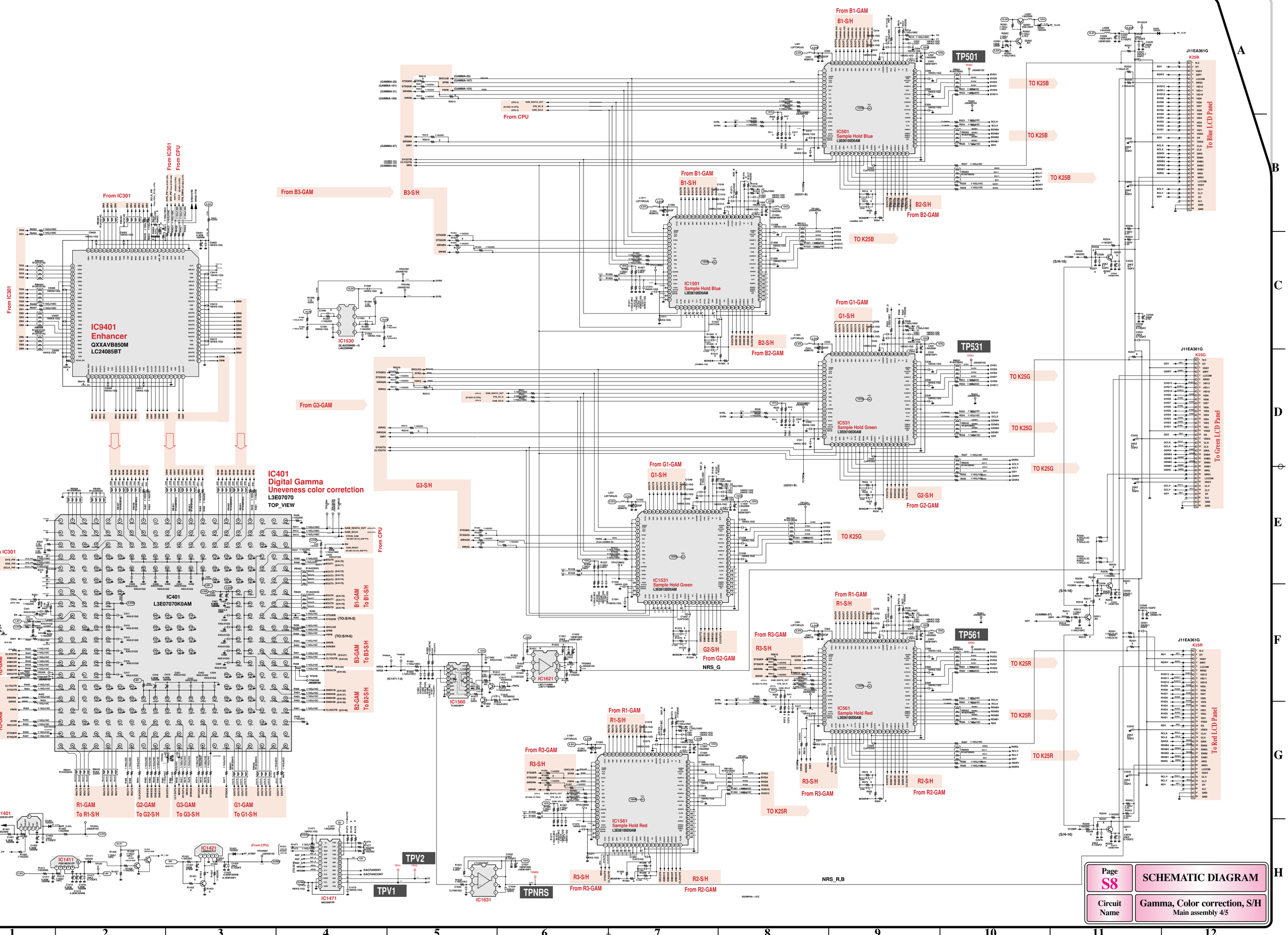
X1331
Y1080060G
(26MHz)

OSC

K1301
J1003060G

CHIP	2SA1035AK	2SA1035K	2SA1179
AJ(7T200221)	R,S	R,S	M6,M7
	2SC2412K	2SC2812	
AH(7T200220)	R,S	L6,L7	

Page	SCHEMATIC DIAGRAM
S7	
Circuit Name	Scan converter Main assembly 3/5


IC9401
Enhancer
QXXAVB850M
LC24085BT
IC401
Digital Gamma
Uneveness color corretction
L3E07070
TOP_VIEW
IC401
L3E07070K0AM
IC1530
QLA5356RM-G
LA5356NM
IC1501
Sample Hold Blue
L3E06100D0AM
IC1531
Sample Hold Green
L3E06100D0AM
IC1561
Sample Hold Red
L3E06100D0AM
IC501
Sample Hold Blue
L3E06100D0AM
IC531
Sample Hold Green
L3E06100D0AM
IC561
Sample Hold Red
L3E06100D0AM
IC1621
IC1560
IC1631
IC1411
IC1421
IC1471
TP501
TP531
TP561
TPV1
TPV2
TPNRS
J11EA361G
K25B
K25G
K25R
To Blue LCD Panel
To Green LCD Panel
To Red LCD Panel
From IC301
From CPU
From B1-GAM
From B2-GAM
From B3-GAM
From G1-GAM
From G2-GAM
From G3-GAM
From R1-GAM
From R2-GAM
From R3-GAM
To R1-S/H
To R2-S/H
To R3-S/H
To G1-S/H
To G2-S/H
To G3-S/H
To B1-S/H
To B2-S/H
To B3-S/H
TO K25B
TO K25G
TO K25R
NRS_G
NRS_R,B
Page
S8
SCHEMATIC DIAGRAM
Circuit Name
Gamma, Color correction, S/H
Main assembly 4/5

Not Used

TO CONTROL K96A

NOT USED

TO BALLAST-1

NOT USED

TO BALLAST-2

TO PFC_1

TO SUB-POWER K66D

Not Used

Not Used

Not Used TO K58A

TO NET K56N

TO CGMOTHER K90Q

TO MOTOR-DRIVE&AUDIO-AMP K16A

Audio control

Atmospheric Pressure Sensor

IC1801 I/O EXPANDER

(ENHANSA) (SW_FPGA)

IC801 CPU

QXXAJJ0475

IC1811 MEMORY EEP ROM

IC871 MEMORY (FLASH)

QXXAJJ0476

IC1822 OUTPUT EXPANDER

IC892 SRAM

IC9801 USB CONTROLLER

(TO:IC4821,31)

(TO:CPU-7~27)

(TO:IC9401 P4)

(TO:IC9401 P4)

(TO:CPU-7~27)

(TO:ENHA.GAMMA.S/H P6)

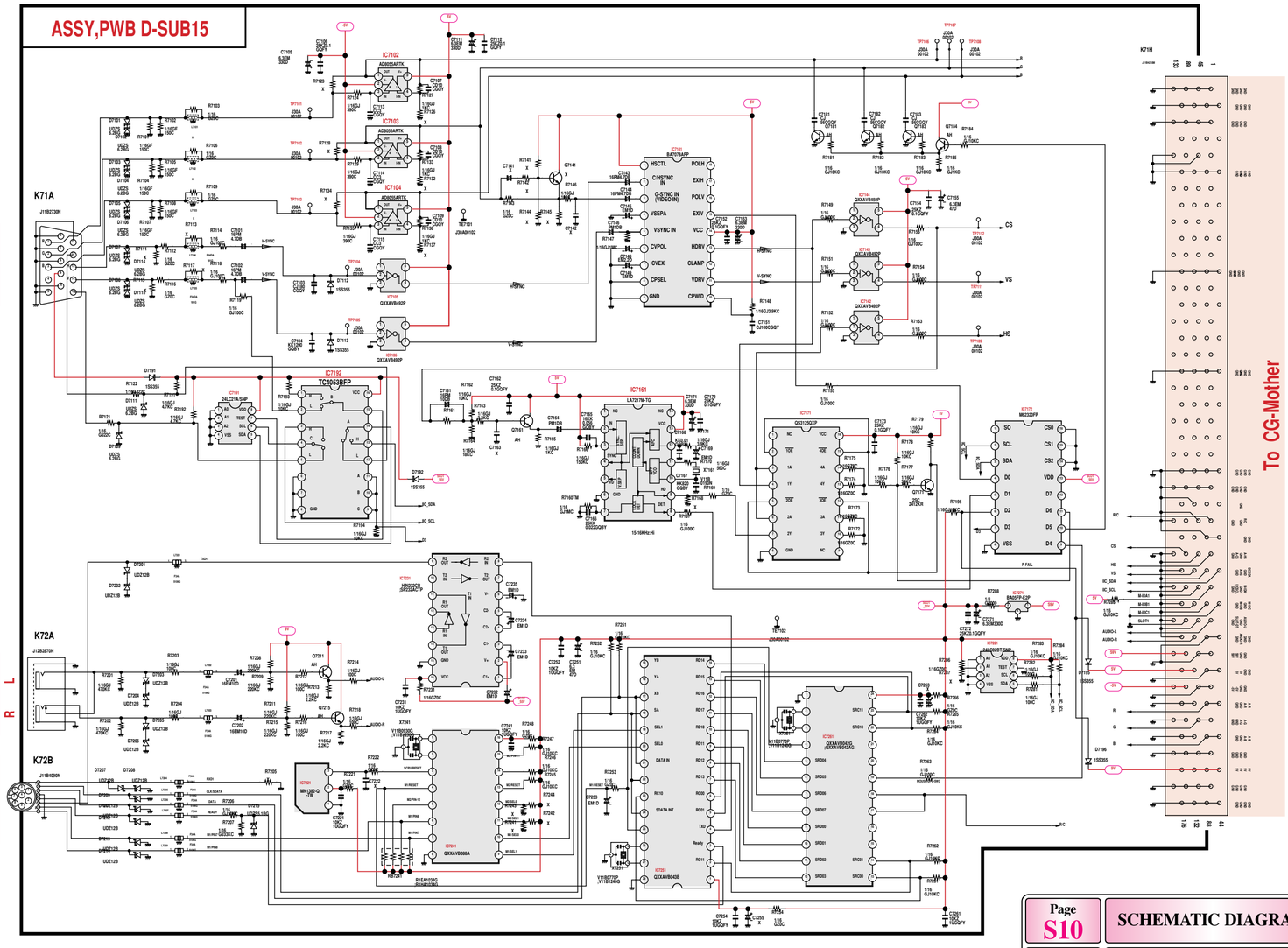
(TO:IC3401 P4)

K88A Not Used

CHIP	2SA1035AK	2SA1035K	2SA1179
AJ772000221)	R.S	R.S	M6.M7
RH772000220)	2SC2412K	2SC2812	
	R.S	L4.L7	

Page S9	SCHEMATIC DIAGRAM
Circuit Name	System control Main assembly 5/5

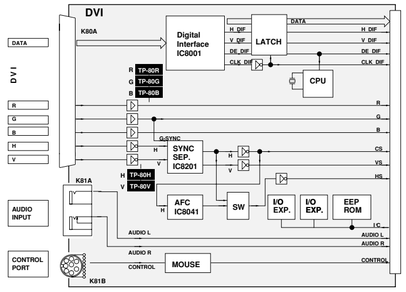
ASSY,PWB D-SUB15



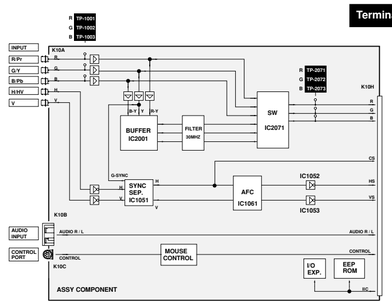
Page **S10**	**SCHEMATIC DIAGRAM**
Circuit Name	**Terminal board D-SUB15**

Some of the Terminal boards are optional.
Factory set of terminal board is different by projector models.

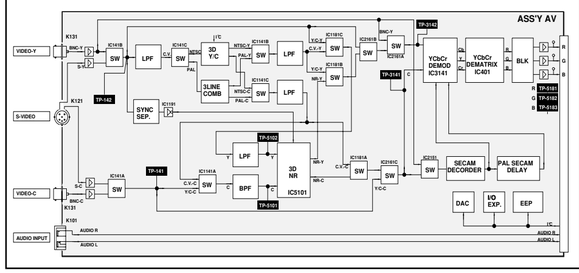
Terminal board DVI



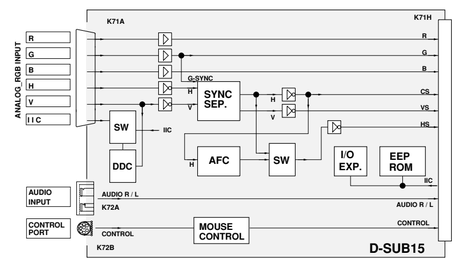
Terminal board Component



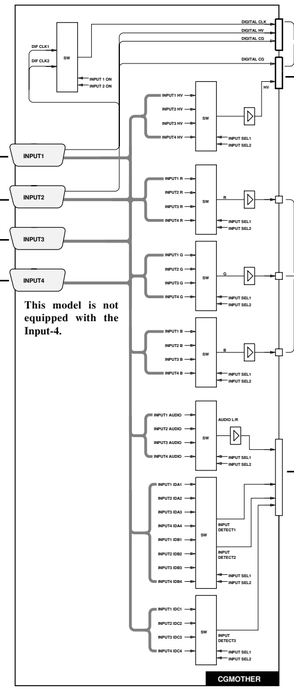
Terminal board AV

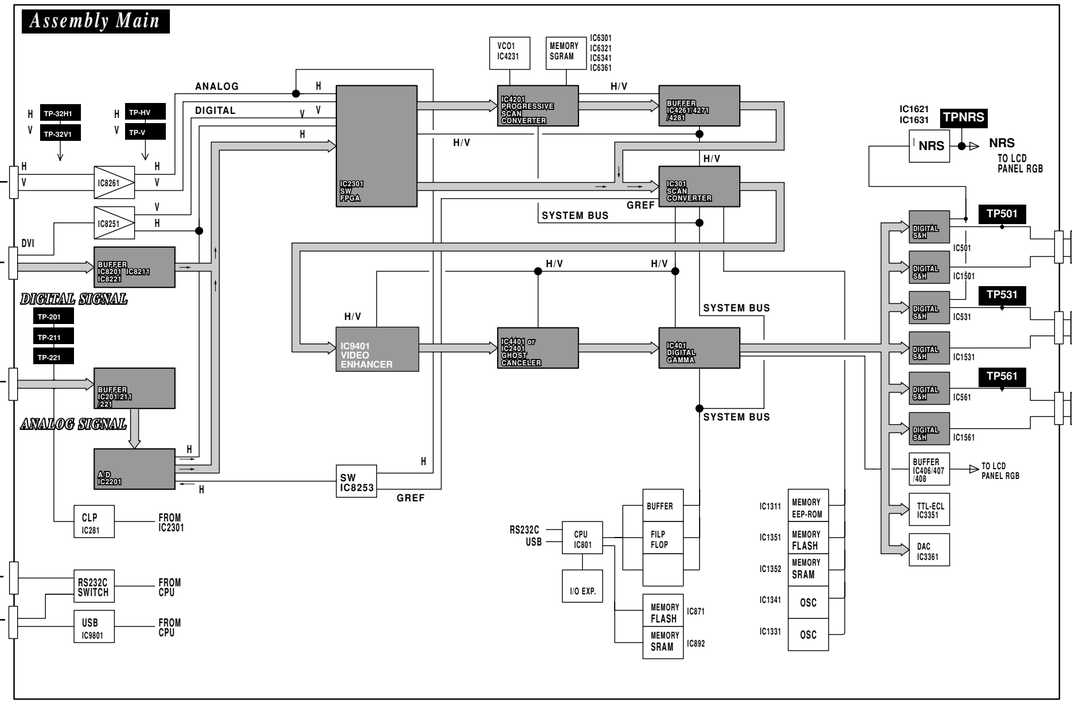


Terminal board D-SUB15

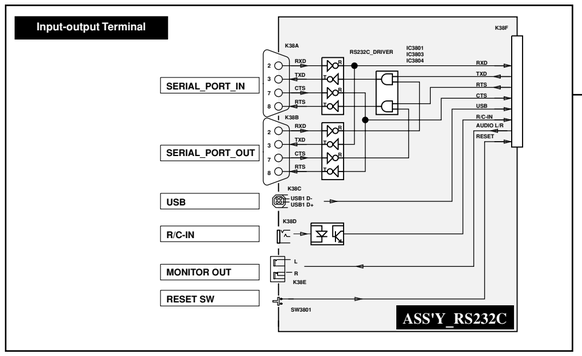


This model is not equipped with the Input-4.

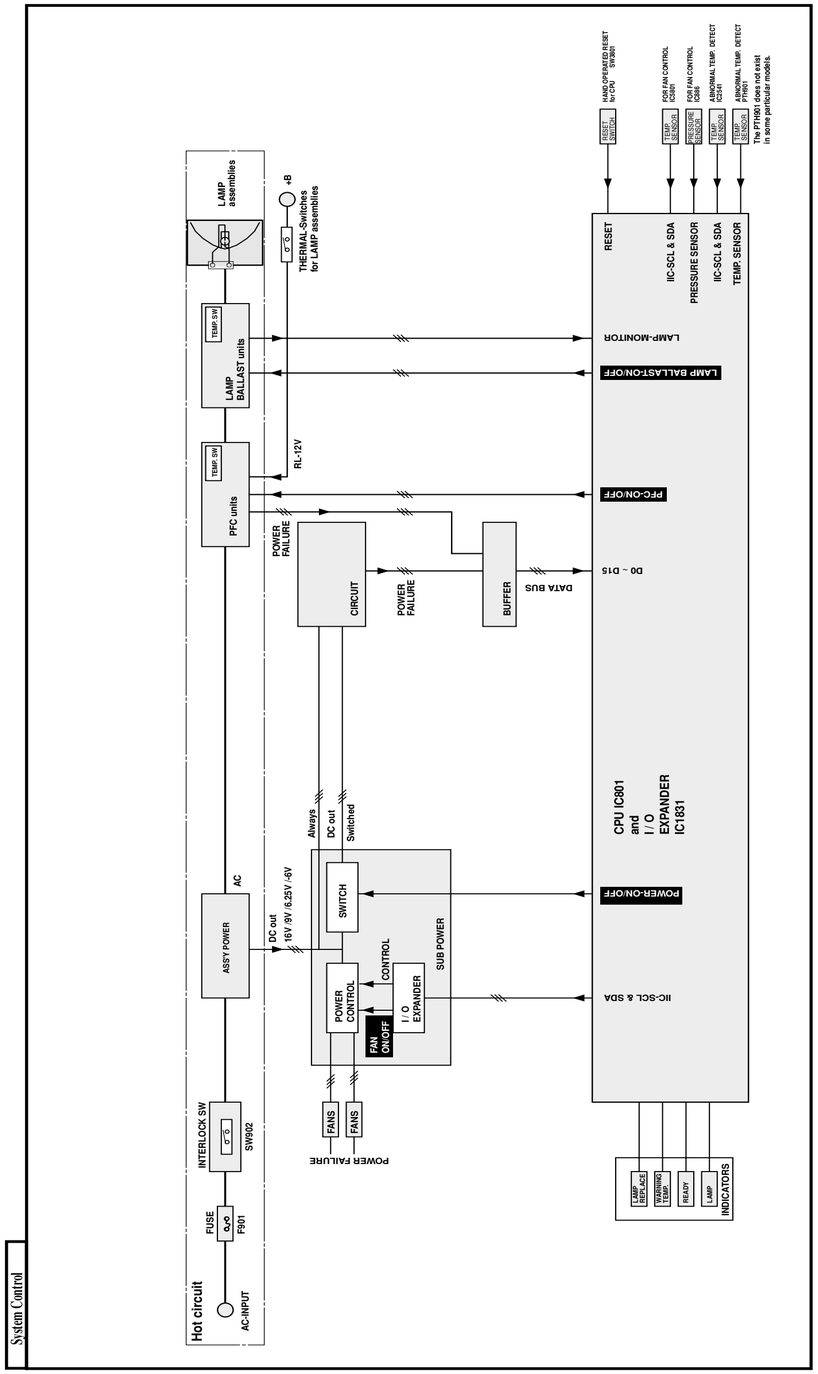


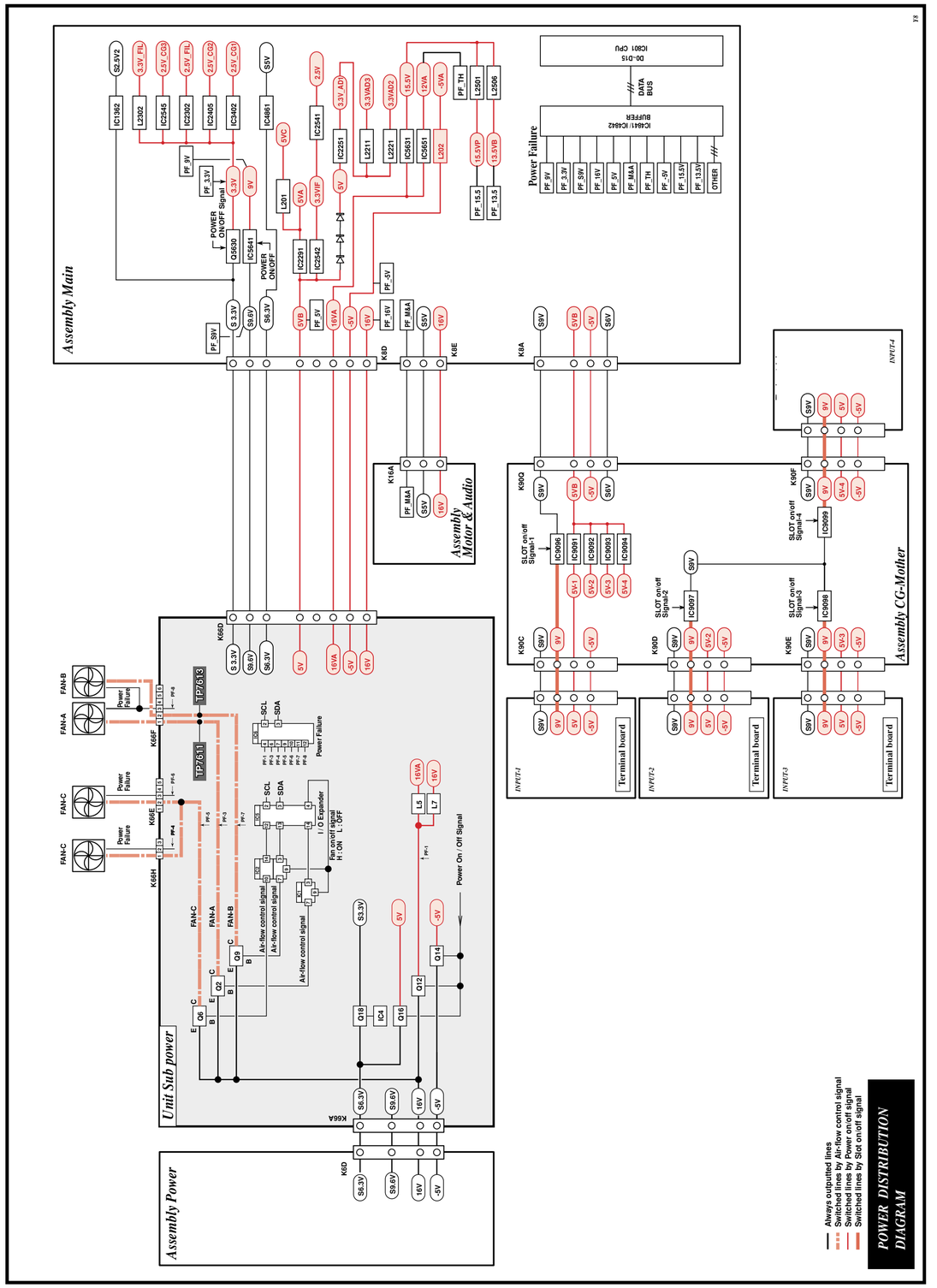


Input-output Terminal



Page B1	BLOCK DIAGRAM
Diagram Name	Signal lines





This model is not equipped with the SLOT-4 (Input-4).

Page B2	BLOCK DIAGRAM
Diagram Name	System control

MAIN Side-A

Not Used
K302

Not Used
K8N

FROM K2B
TO CGMOTHER K90M

TP221

TP211

FROM K2G
TO CGMOTHER K90L

TP201

FROM K2R
TO CGMOTHER K90K

FROM K32A
TO CGMOTHER K90A

FROM K32B
TO CGMOTHER K90B

FROM K25R
TO RED LCD PANEL

TPNRS

TP561

Not Used
K301

Not Used
K8G

Not Used
K1301

FROM K25G
TO GREEN LCD PANEL

TP531

1AA4B10C37500_A
A_SIDE

TP501

FROM K25B
TO BLUE LCD PANEL

Not Used
K8P

FROM K8E
TO MOTOR-DRIVE&AUDIO-AMP K16A

FROM K8V
TO SENSOR K58A

NOT USED
K8R

FROM K8W
TO BALLAST-1

FROM K8Q
TO PFC_1

FROM K8X
TO BALLAST-2

K8S
NOT USED

Not Used
K8F

K8Y
Not Used

K8T
Not Used

FROM K8A
TO CGMOTHER K90Q

Not Used
K88A

FROM K8U
TO NET K56N

TPV1

TPV2

Not Used
K8H

K8B
TO CONTROL K96A

TO SUB-POWER K66D
FROM K8D

Not Used
K8J

Page P1	PWB PARTS LOCATION DIAGRAM
Board Name	Main board A Side

MAIN Side-B

B_SIDE

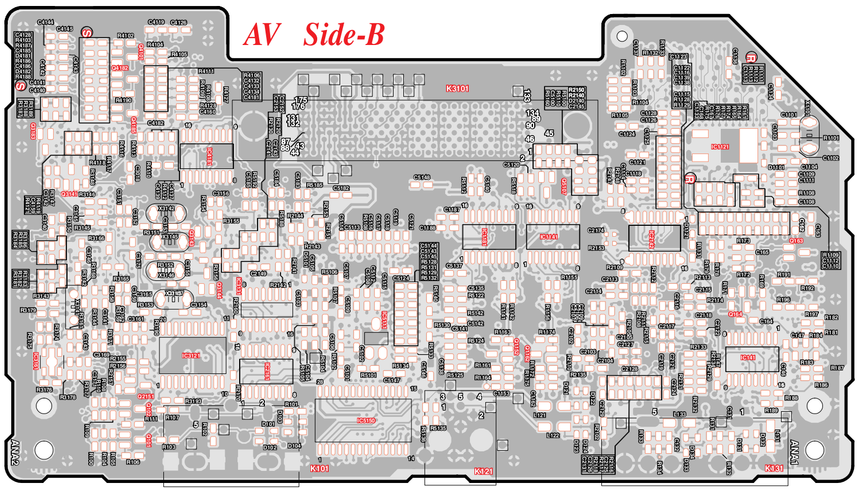
PWB PARTS LOCATION DIAGRAM	Main board B Side
Page P2	Board Name

Page	PWB PARTS LOCATION DIAGRAM
P3	

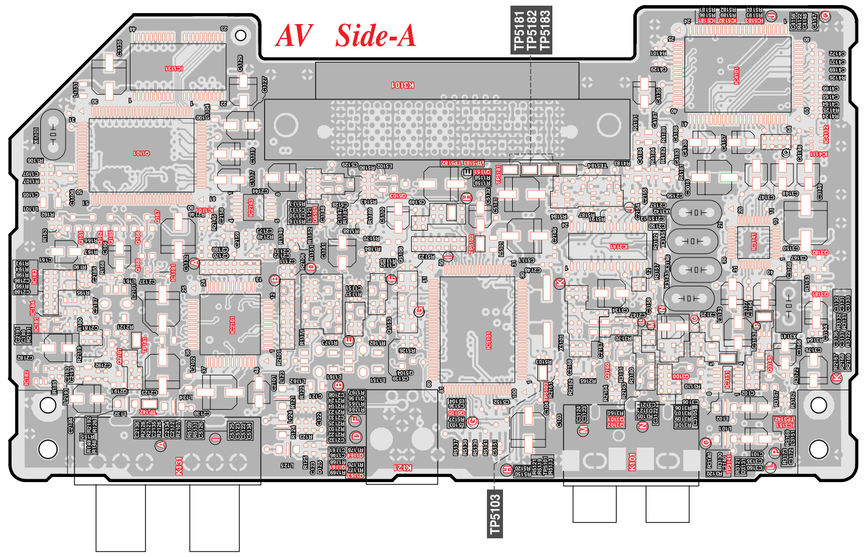
Board Name	DSUB15, Component, AV and DVI board

These boards are for the terminal boards.
Some of the terminal boards are optional.
Factory set of the terminal boards is different by projector models.

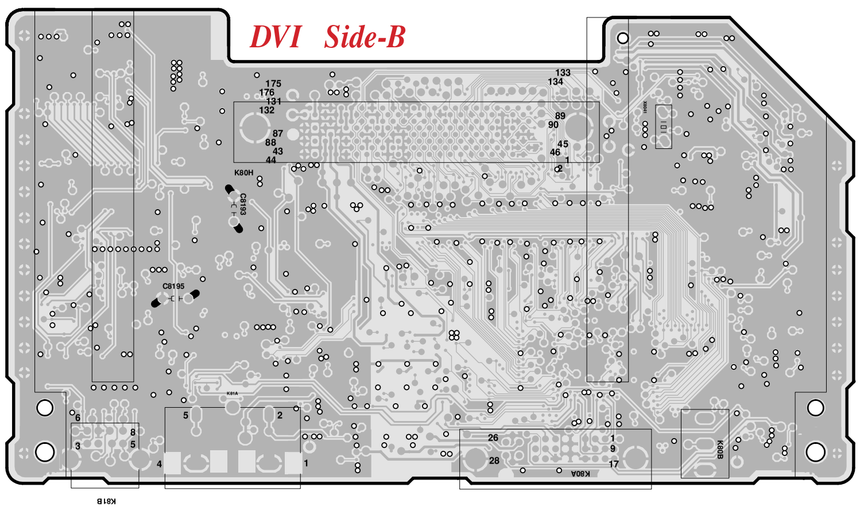
AV Side-B



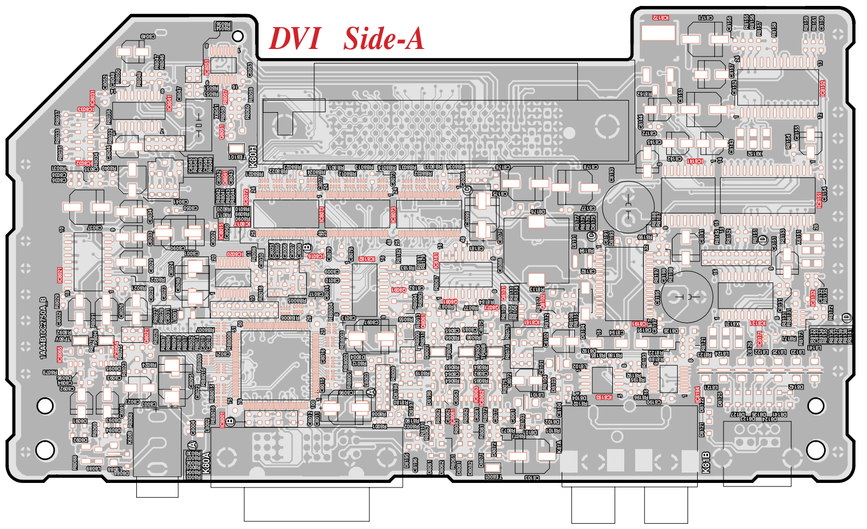
AV Side-A



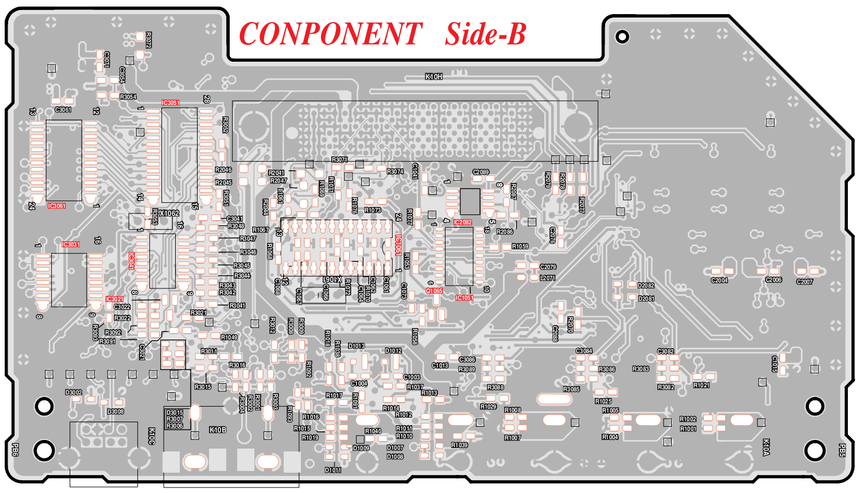
DVI Side-B



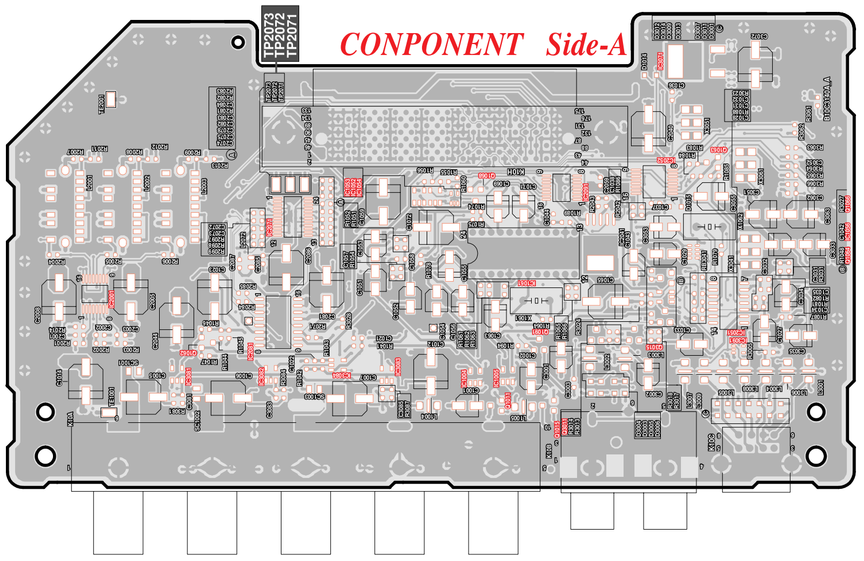
DVI Side-A



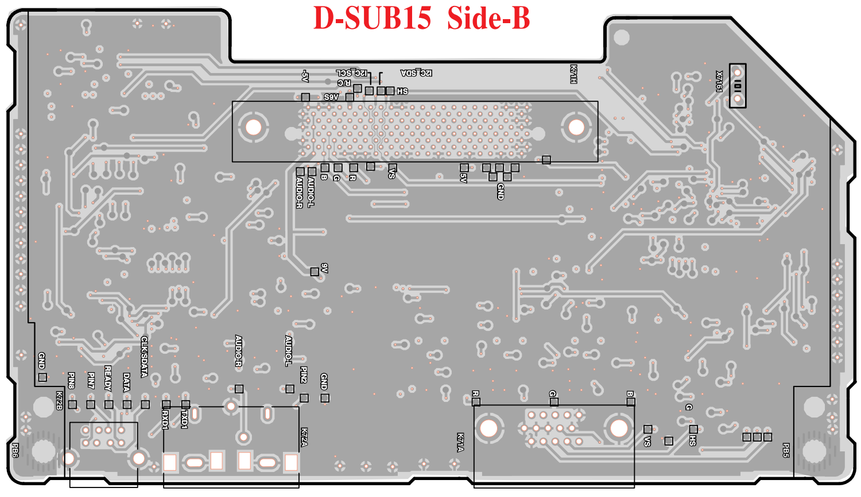
CONPONENT Side-B



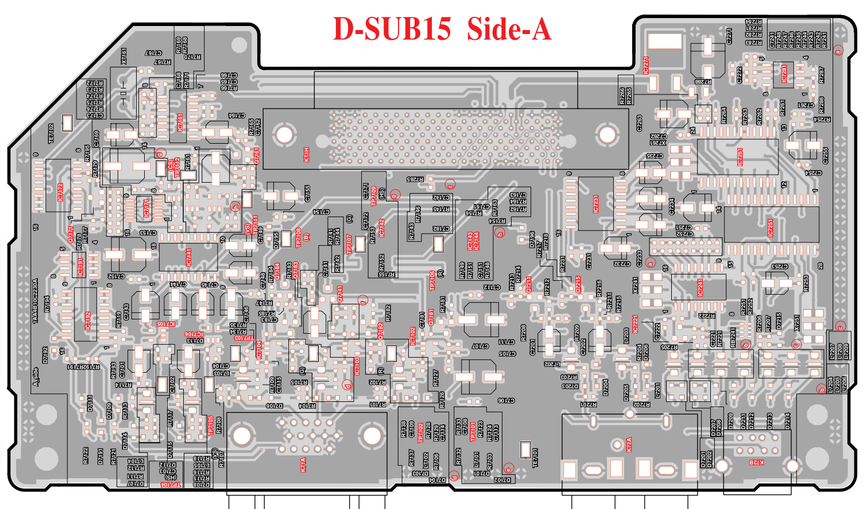
CONPONENT Side-A



D-SUB15 Side-B



D-SUB15 Side-A



RGB INTAKE FANNET Side-B

F_G NET Side-B

OPTICAL FANNET Side-B

LENSNET Side-B

POWER Side-B

TP2641

TP2642

OPTICAL FANNET Side-A

F_G NET Side-A

RGB INTAKE FANNET Side-A

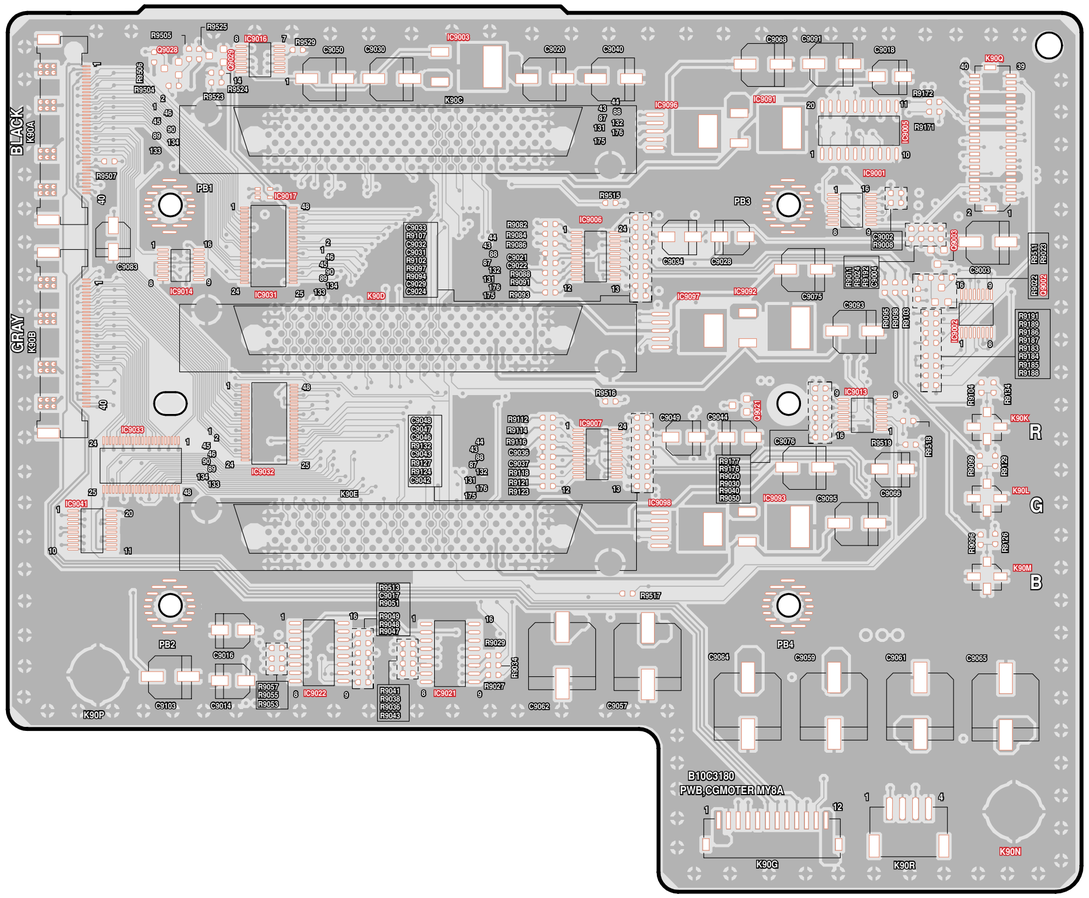
LENSNET Side-A

VR652

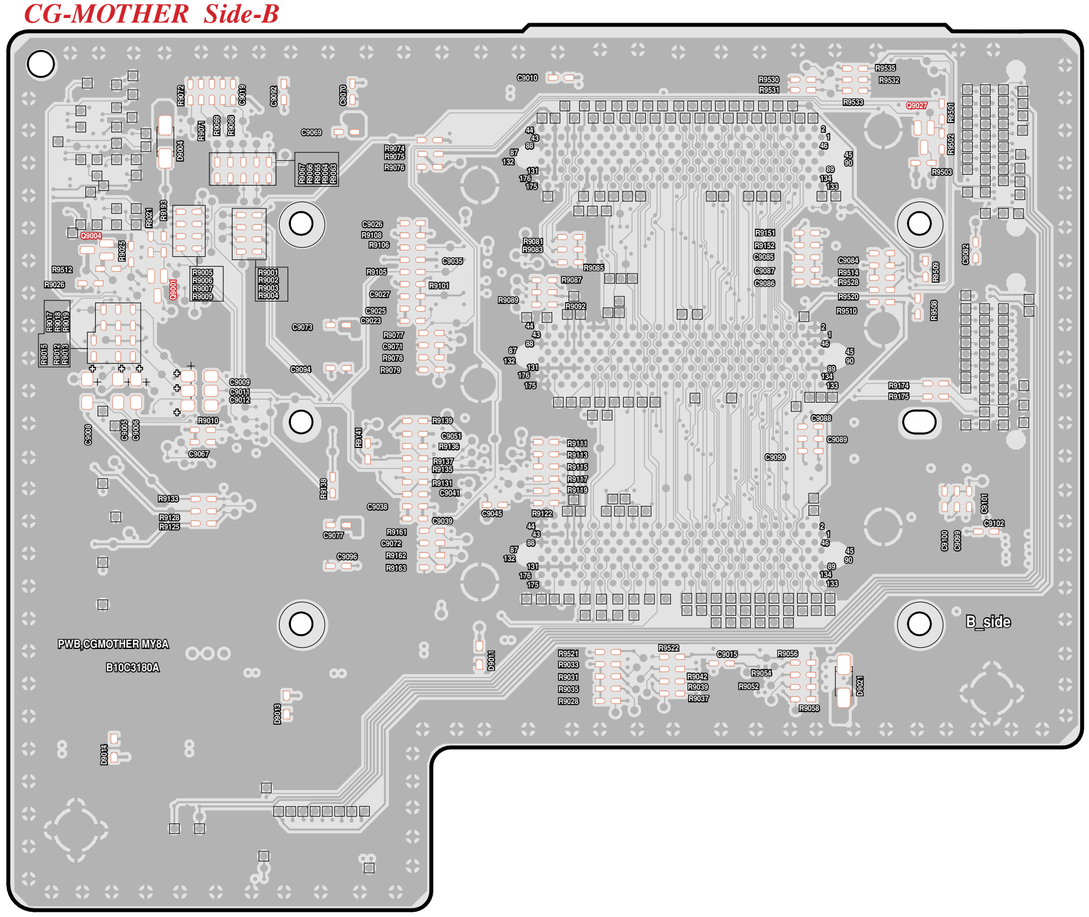
POWER Side-A

Page P4	PWB PARTS LOCATION DIAGRAM
Board Name	Power and Net board

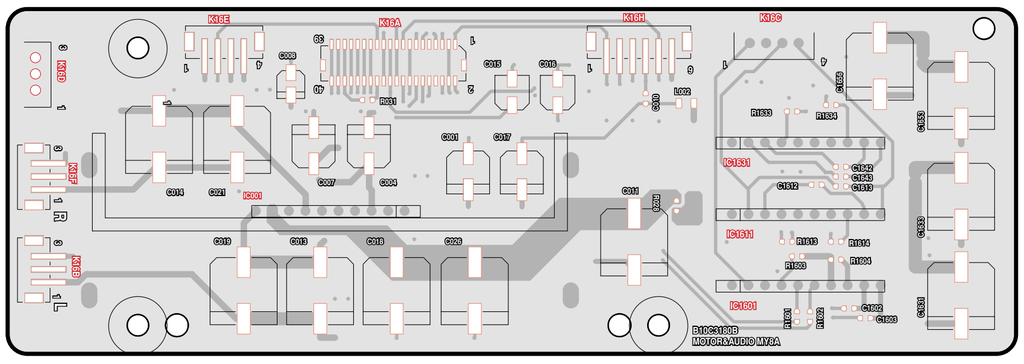
CG-MOTHER Side-A



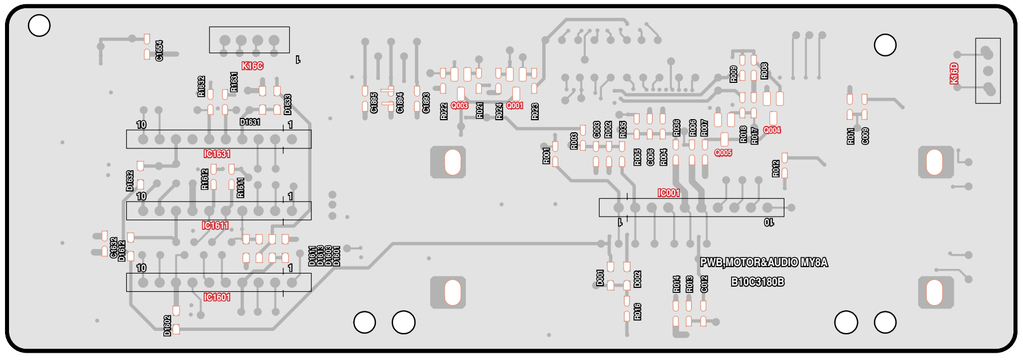
CG-MOTHER Side-B



MOTOR & AUDIO Side-A

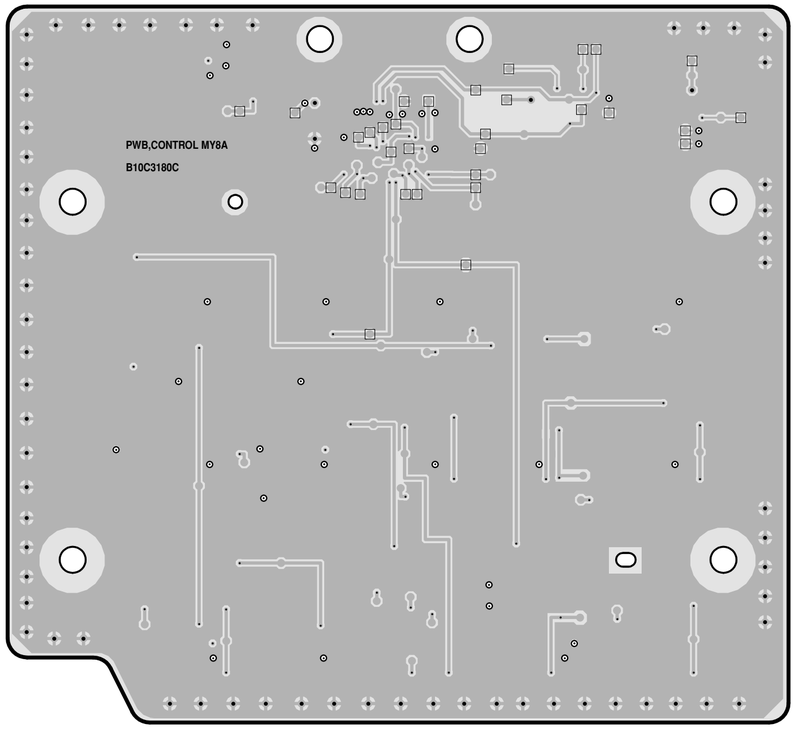


MOTOR & AUDIO Side-B

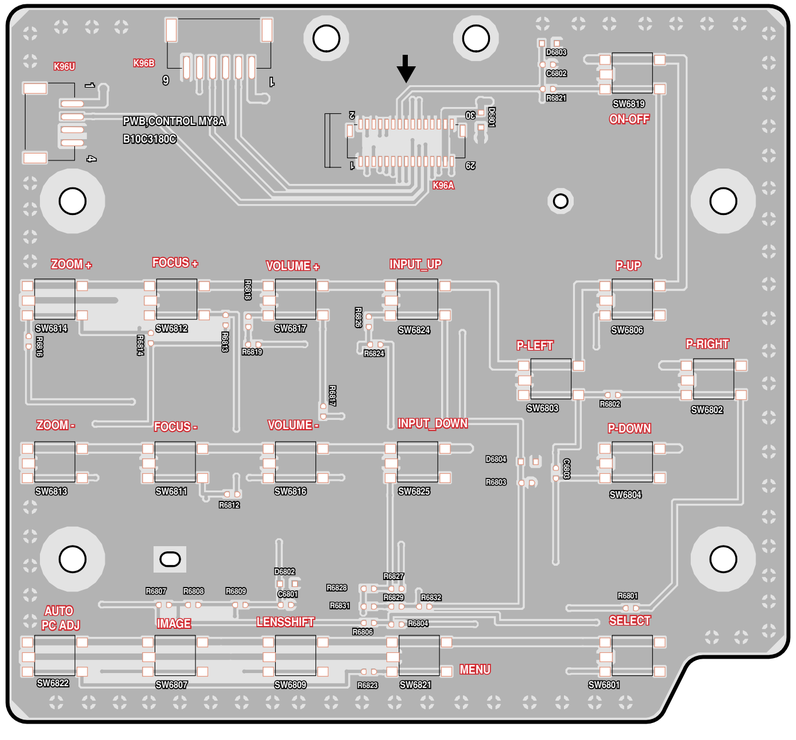


Page	PWB PARTS LOCATION DIAGRAM
P5	
Board Name	CG-Mother and Motor&Audio board

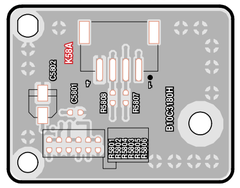
CONTROL Side-B



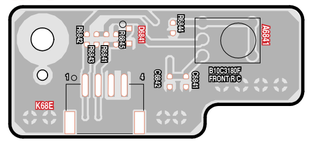
CONTROL Side-A



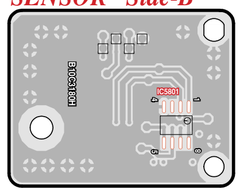
SENSOR Side-A



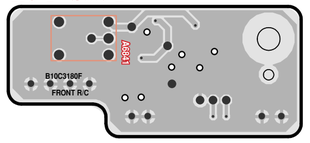
RC-1 Side-A



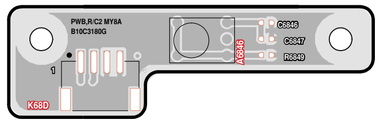
SENSOR Side-B



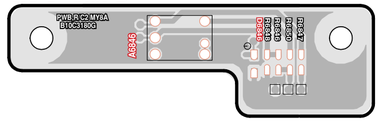
RC-1 Side-B



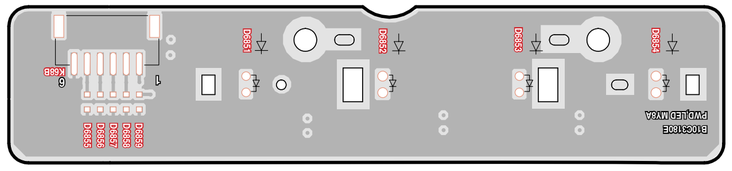
RC-2 Side-A



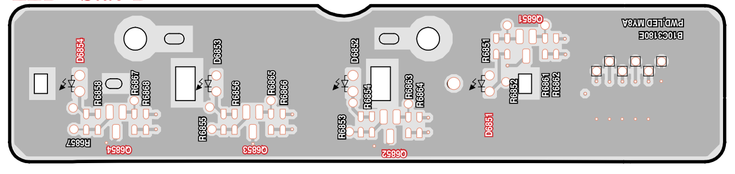
RC-1 Side-B



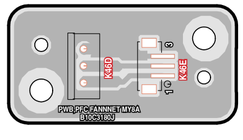
LED Side-A



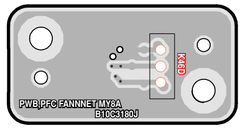
LED Side-B



PFC-FANNET Side-A

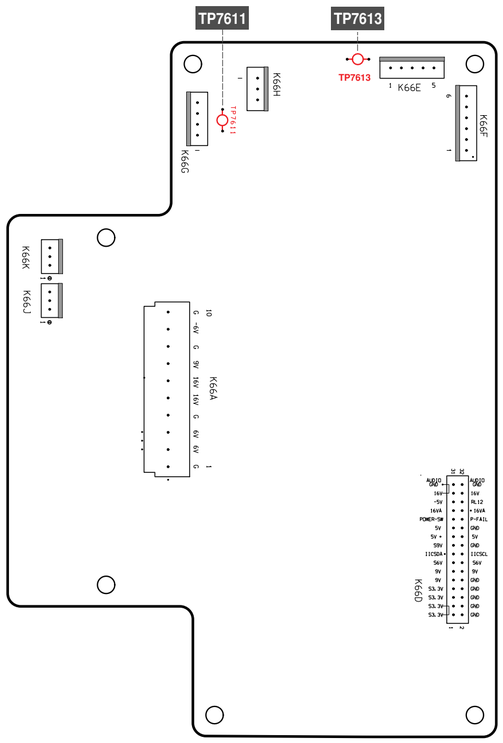


PFC-FANNET Side-B

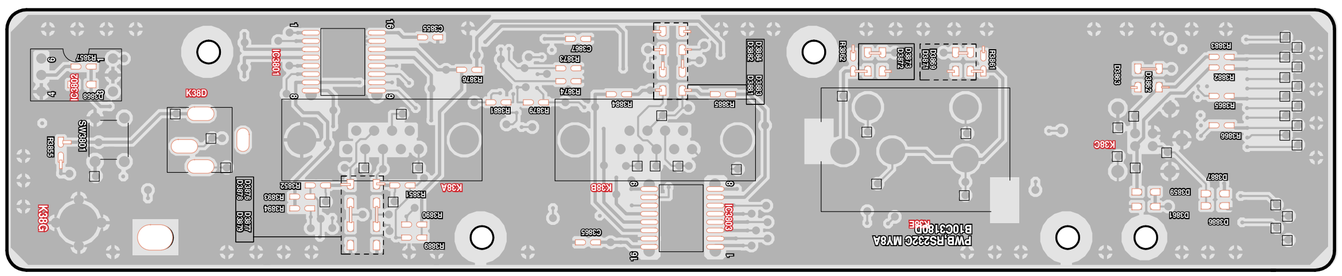


Page	PWB PARTS LOCATION DIAGRAM
P6	
Board Name	Control, Sensor, R/C, LED, and Fannet board

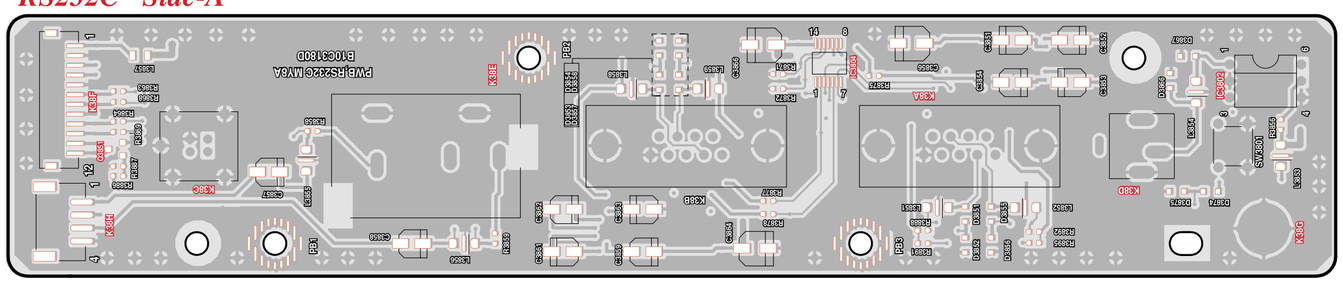
SUB-POWER Side-A



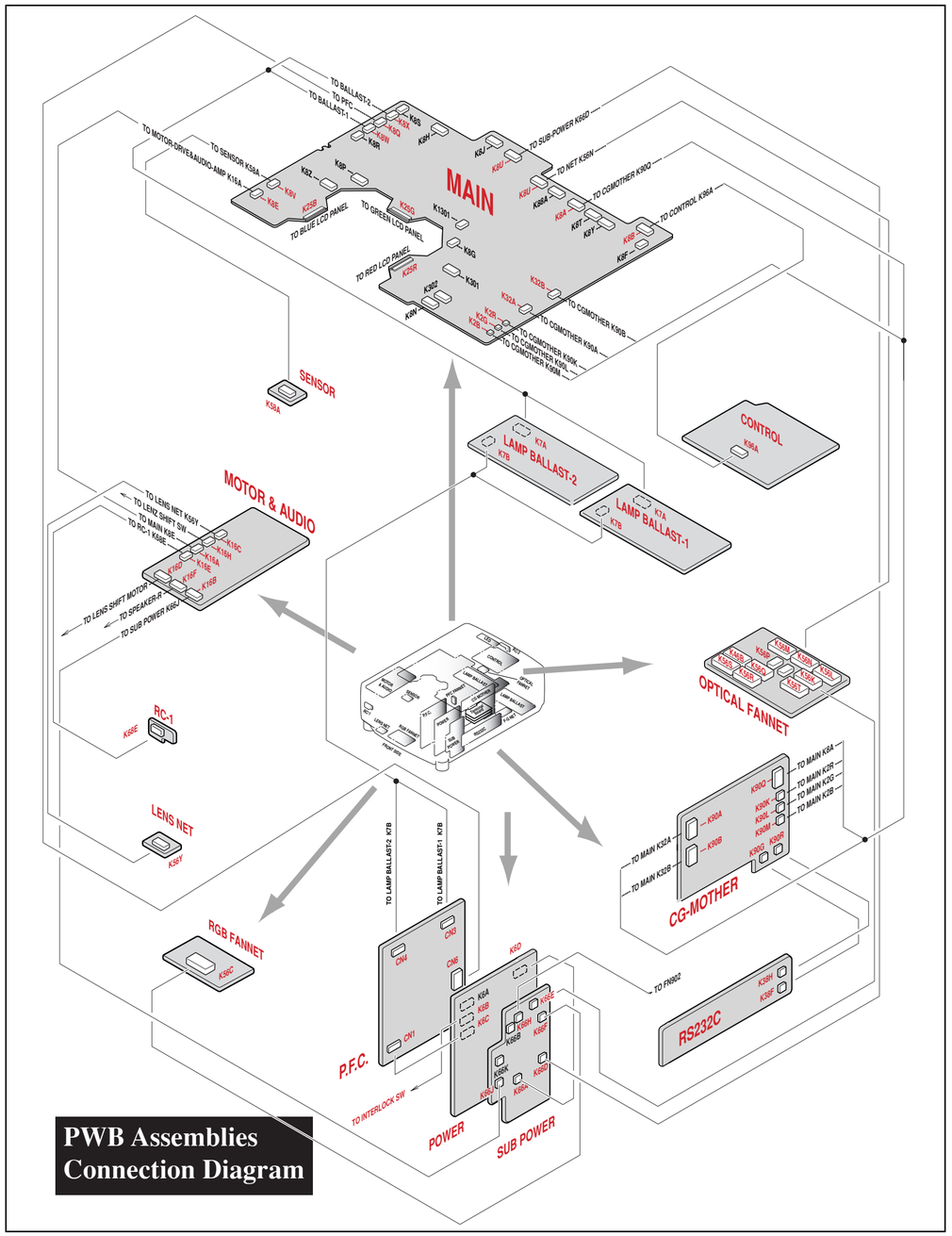
RS232C Side-B



RS232C Side-A



PWB Assemblies Connection Diagram



Page P7	PWB parts location diagram and PWB Assemblies Connection diagram
Name	Subpower and RS232C board, PWB Assemblies Connection diagram